


BLAST Basic Local Alignment Search Tool

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Nucleotide Sequence (9599 letters)

Results for: 

Your BLAST job specified more than one input sequence. This box lets you choose which input sequence to show BLAST results for.

Query ID

|cd|43657

Description

None

Molecule type

nucleic acid

Query Length

9599

Database Name

pat

Description

Nucleotide sequences derived from the Patent division of GenBank

Program

BLASTN 2.2.21+ [Citation](#)

Reference

Zheng Zhang, Scott Schwartz, Lukas Wagner, and Webb Miller (2000), "A greedy algorithm for aligning DNA sequences", J Comput Biol 2000; 7(1-2):203-14.

Other reports: [Search Summary](#) [Taxonomy reports](#) [Distance tree of results](#)

Search Parameters

Program	blastn
Query range	0-9598
Word size	28
Expect value	10
Hittlist size	100
Match/Mismatch scores	1,-2
Gapcosts	0,0
Low Complexity Filter	Yes
Filter string	L;m;
Genetic Code	1

Database

Posted date	Sep 6, 2009 4:41 AM
Number of letters	5,649,747,954
Number of sequences	10,944,200
Entrez query	none

Karlin-Altschul statistics

Params	Ungapped	Gapped
Lambda	1.33271	1.28
K	0.620991	0.46
H	1.12409	0.85

Results Statistics

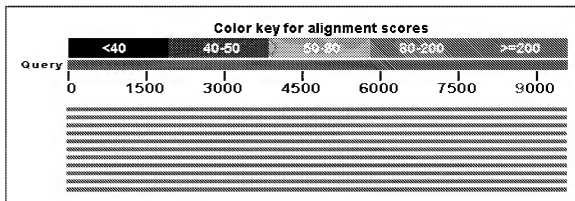
Length adjustment	34
Effective length of query	9565
Effective length of database	5277645154
Effective search space	50480675898010
Effective search space used	50480675898010

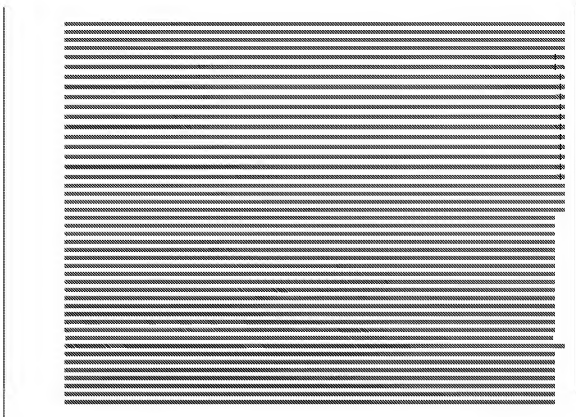
[Graphic Summary](#)

Distribution of 130 Blast Hits on the Query Sequence

[?]

An overview of the database sequences aligned to the query sequence is shown. The score of each alignment is indicated by one of five different colors, which divides the range of scores into five groups. Multiple alignments on the same database sequence are connected by a striped line. Mousing over a hit sequence causes the definition and score to be shown in the window at the top, clicking on a hit sequence takes the user to the associated alignments. New: This graphic is an overview of database sequences aligned to the query sequence. Alignments are color-coded by score, within one of five score ranges. Multiple alignments on the same database sequence are connected by a dashed line. Mousing over an alignment shows the alignment definition and score in the box at the top. Clicking an alignment displays the alignment detail.





Descriptions

Legend for links to other resources: [U](#) UniGene [G](#) GEO [G](#) Gene [S](#) Structure [M](#) Map Viewer

Sequences producing significant alignments:

(Click headers to sort columns)

GN088766.1	Sequence 1 from Patent WO2009030872	1.773e+041.773e+04100%	0.0	100%
GP053754.1	Sequence 13 from patent US 7473772	1.773e+041.773e+04100%	0.0	100%
GM741321.1	Sequence 55 from Patent WO2008004992	1.773e+041.773e+04100%	0.0	100%
FB361094.1	Sequence 13 from Patent WO2006110762	1.773e+041.773e+04100%	0.0	100%
EA500399.1	Sequence 1 from patent US 7361503	1.773e+041.773e+04100%	0.0	100%
DJ068451.1	NOVEL SEQUENCES ENCODING HEPATITIS C VIRUS GLYCOPROTEINS	1.773e+041.773e+04100%	0.0	100%
EA268426.1	Sequence 13 from patent US 7244585	1.773e+041.773e+04100%	0.0	100%
EA110745.1	Sequence 2 from patent US 7201911	1.773e+041.773e+04100%	0.0	100%
EA029856.1	Sequence 13 from patent US 7141405	1.773e+041.773e+04100%	0.0	100%
EA019704.1	Sequence 6 from patent US 7129342	1.773e+041.773e+04100%	0.0	100%
AR916157.1	Sequence 67 from patent US 7084266	1.773e+041.773e+04100%	0.0	100%
AR119831.1	Sequence 2 from patent US 6153421	1.773e+041.773e+04100%	0.0	100%
DL479449.1	YEAST-BASED THERAPEUTIC FOR CHRONIC HEPATITIS C INFECTION	1.761e+041.761e+04100%	0.0	99%
GC661264.1	Sequence 19 from patent US 7439042	1.761e+041.761e+04100%	0.0	99%
DI166564.1	YEAST-BASED THERAPEUTIC FOR CHRONIC HEPATITIS C INFECTION	1.761e+041.761e+04100%	0.0	99%
EA356451.1	Sequence 17 from patent US 7288369	1.737e+041.774e+04100%	0.0	100%
AR700053.1	Sequence 17 from patent US 6921634	1.737e+041.774e+04100%	0.0	100%
GP244623.1	Sequence 1 from patent US 7504255	1.732e+041.761e+04100%	0.0	99%
DL487744.1	FUNCTIONAL DNA CLONE FOR HEPATITIS C VIRUS (HCV) AND USES THEREOF	1.732e+041.761e+04100%	0.0	99%
FB361093.1	Sequence 12 from Patent WO2006110762	1.732e+041.761e+04100%	0.0	99%
EA263001.1	Sequence 1 from patent US 7235394	1.732e+041.761e+04100%	0.0	99%
CS541301.1	Sequence 49 from Patent WO2007013882	1.732e+041.761e+04100%	0.0	99%
BD069982.1	Functional DNA clone for hepatitis C virus (HCV) and uses thereof	1.732e+041.761e+04100%	0.0	99%
AR110828.1	Sequence 1 from patent US 6127116	1.732e+041.761e+04100%	0.0	99%
DL487747.1	FUNCTIONAL DNA CLONE FOR HEPATITIS C VIRUS (HCV) AND USES THEREOF	1.732e+041.760e+04100%	0.0	99%
EA263004.1	Sequence 5 from patent US 7235394	1.732e+041.760e+04100%	0.0	99%
BD069985.1	Functional DNA clone for hepatitis C virus (HCV) and uses thereof	1.732e+041.760e+04100%	0.0	99%
AR110831.1	Sequence 5 from patent US 6127116	1.732e+041.760e+04100%	0.0	99%
GN088768.1	Sequence 3 from Patent WO2009030872	1.731e+041.731e+04100%	0.0	99%
EA372966.1	Sequence 2 from patent US 7314710	1.713e+041.713e+04100%	0.0	98%
DD070077.1	PROCESS FOR THE REPLICATION OF THE HEPATITIS C VIRUS	1.713e+041.713e+04100%	0.0	98%
AX663428.1	Sequence 2 from Patent WO02088338	1.713e+041.713e+04100%	0.0	98%
DL487761.1	FUNCTIONAL DNA CLONE FOR HEPATITIS C VIRUS (HCV) AND USES THEREOF	1.688e+041.688e+0497%	0.0	99%
EA263018.1	Sequence 19 from patent US 7235394	1.688e+041.688e+0497%	0.0	99%

BD069999.1	Functional DNA clone for hepatitis C virus (HCV) and uses thereof	1.688e+041.688e+0497%	0.0	99%
AR110845.1	Sequence 19 from patent US 6127116	1.688e+041.688e+0497%	0.0	99%
GM680540.1	Sequence 13 from Patent EP1947185	1.688e+041.688e+0498%	0.0	99%
DI128636.1	VACCINES CONTAINING RIBAVIRIN AND METHODS OF USE THEREOF	1.688e+041.688e+0498%	0.0	99%
EA281575.1	Sequence 13 from patent US 7261883	1.688e+041.688e+0498%	0.0	99%
EA269460.1	Sequence 13 from patent US 7244715	1.688e+041.688e+0498%	0.0	99%
EA267242.1	Sequence 13 from patent US 7244422	1.688e+041.688e+0498%	0.0	99%
EA264407.1	Sequence 13 from patent US 7241440	1.688e+041.688e+0498%	0.0	99%
BD442677.1	VACCINES CONTAINING RIBAVIRIN AND METHODS OF USE THEREOF	1.688e+041.688e+0498%	0.0	99%
AR640519.1	Sequence 13 from patent US 6858590	1.688e+041.688e+0498%	0.0	99%
AR453138.1	Sequence 13 from patent US 6680059	1.688e+041.688e+0498%	0.0	99%
AX441173.1	Sequence 13 from Patent W00213855	1.688e+041.688e+0498%	0.0	99%
AR030378.1	Sequence 1 from patent US 5861267	1.687e+041.687e+0497%	0.0	99%
AR607374.1	Sequence 7 from patent US 6821955	1.665e+041.665e+0497%	0.0	98%
DI026879.1	A detecting method of hepatitis C virus using recombinant mixed antigens derived from HCV and a diagnostic kit thereof	1.541e+041.541e+04100%	0.0	95%
DI040069.1	NANV DIAGNOSTICS: POLYNUCLEOTIDES USEFUL FOR SCREENING FOR HEPATITIS C VIRUS	1.520e+041.520e+0497%	0.0	95%
BD295096.1	NANV DIAGNOSTICS: POLYNUCLEOTIDES USEFUL FOR SCREENING FOR HEPATITIS C VIRUS	1.520e+041.520e+0497%	0.0	95%
BD080334.1	Hepatitis C virus asialoglycoprotein	1.520e+041.520e+0497%	0.0	95%
AR176483.1	Sequence 9 from patent US 6312889	1.520e+041.520e+0497%	0.0	95%
E66593.1	Hepatitis C virus asialoglycoprotein	1.520e+041.520e+0497%	0.0	95%
I81885.1	Sequence 9 from patent US 5712087	1.520e+041.520e+0497%	0.0	95%
I71894.1	Sequence 9 from patent US 5683864	1.520e+041.520e+0497%	0.0	95%
DM170404.1	HEPATITIS C VIRUS (HCV) POLYPEPTIDES	1.516e+041.516e+0497%	0.0	95%
DL212380.1	HEPATITIS C VIRUS (HCV) POLYPEPTIDES	1.516e+041.516e+0497%	0.0	95%
DI491512.1	HEPATITIS C VIRUS (HCV) POLYPEPTIDES	1.516e+041.516e+0497%	0.0	95%
DJ047428.1	HEPATITIS C VIRUS (HCV) POLYPEPTIDES	1.516e+041.516e+0497%	0.0	95%
DD495902.1	HEPATITIS C VIRUS (HCV) POLYPEPTIDES	1.516e+041.516e+0497%	0.0	95%
AR301300.1	Sequence 1 from patent US 6538123	1.516e+041.516e+0497%	0.0	95%
AR166930.1	Sequence 1 from patent US 6284249	1.516e+041.516e+0497%	0.0	95%
DI039725.1	COMBINATIONS OF HEPATITIS C VIRUS (HCV) ANTIGENS FOR USE IN IMMUNOASSAYS FOR ANTI-HCV ANTIBODIES	1.514e+041.514e+0497%	0.0	95%
AR118747.1	Sequence 176 from patent US 6150087	1.513e+041.513e+0497%	0.0	95%
E08264.1	cDNA of Hepatitis C virus, HC-J1	1.487e+041.487e+0498%	0.0	94%
E08263.1	gRNA of Hepatitis C virus, HC-J1	1.486e+041.486e+0498%	0.0	94%
AX100563.1	Sequence 1 from Patent W00121807	1.483e+041.758e+0499%	0.0	100%
BD426989.1	METHODS FOR CULTURING HCV IN EUKARYOTIC CELLS	1.482e+041.482e+0495%	0.0	95%
BD091382.1	HCV cultivation method in eucaryotic cells	1.482e+041.482e+0495%	0.0	95%
I08294.1	Sequence 1 from Patent EP 0388232	1.482e+041.482e+0495%	0.0	95%
AR118723.1	Sequence 123 from patent US 6150087	1.481e+041.481e+0495%	0.0	95%

AR118722.1	Sequence 122 from patent US 6150087	1.481e+041.481e+0495%	0.0	95%
EA110747.1	Sequence 6 from patent US 7201911	1.477e+041.477e+04100%	0.0	94%
AR119833.1	Sequence 6 from patent US 6153421	1.477e+041.477e+04100%	0.0	94%
AR118728.1	Sequence 137 from patent US 6150087	1.443e+041.443e+0493%	0.0	95%
AR118703.1	Sequence 88 from patent US 6150087	1.326e+041.326e+0486%	0.0	95%
AR916116.1	Sequence 9 from patent US 7084266	1.310e+041.422e+0490%	0.0	96%
AR916114.1	Sequence 5 from patent US 7084266	1.310e+041.417e+0490%	0.0	96%
AX057094.1	Sequence 9 from Patent W00075338	1.310e+041.422e+0490%	0.0	96%
AX057090.1	Sequence 5 from Patent W00075338	1.310e+041.417e+0490%	0.0	96%
AR916115.1	Sequence 7 from patent US 7084266	1.263e+041.375e+0480%	0.0	99%
AR916113.1	Sequence 3 from patent US 7084266	1.263e+041.375e+0480%	0.0	99%
AX057092.1	Sequence 7 from Patent W00075338	1.263e+041.375e+0480%	0.0	99%
AX057088.1	Sequence 3 from Patent W00075338	1.263e+041.375e+0480%	0.0	99%
EA372967.1	Sequence 3 from patent US 7314710	1.208e+041.314e+0477%	0.0	99%
DD070078.1	PROCESS FOR THE REPLICATION OF THE HEPATITIS C VIRUS	1.208e+041.314e+0477%	0.0	99%
AX663429.1	Sequence 3 from Patent W002088338	1.208e+041.314e+0477%	0.0	99%
EA372965.1	Sequence 1 from patent US 7314710	1.188e+041.188e+0468%	0.0	99%
DD070076.1	PROCESS FOR THE REPLICATION OF THE HEPATITIS C VIRUS	1.188e+041.188e+0468%	0.0	99%
AX663427.1	Sequence 1 from Patent W002088338	1.188e+041.188e+0468%	0.0	99%
DI052976.1	Hepatitis C virus epitope	1.170e+041.170e+0476%	0.0	95%
IO9331.1	Sequence 15 from Patent WO 8904669	1.170e+041.170e+0476%	0.0	95%
AR118696.1	Sequence 74 from patent US 6150087	1.169e+041.169e+0476%	0.0	95%
DJ065327.1	HCV Replicon Shuttle Vectors	1.108e+041.168e+0467%	0.0	99%
CS619793.1	Sequence 2 from Patent EP1801116	1.108e+041.168e+0467%	0.0	99%
QM975264.1	Sequence 19 from Patent W02008148671	1.106e+041.165e+0467%	0.0	98%
DJ065332.1	HCV Replicon Shuttle Vectors	1.104e+041.164e+0467%	0.0	98%
CS619798.1	Sequence 7 from Patent EP1801116	1.104e+041.164e+0467%	0.0	98%
QM975250.1	Sequence 5 from Patent W02008148671	1.101e+041.161e+0467%	0.0	98%

Alignments **Select All** Get selected sequences Distance tree of results Multiple alignment **NEW**

>emb|GN088766.1| Sequence 1 from Patent WO2009030872
Length=9599

Score = 1.773e+04 bits (9599), Expect = 0.0
Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCCTGTGAGGAAGTACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCCTGTGAGGAAGTACTG	60
Query	61	TCTTCACGCAGAAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC	120
Sbjct	61	TCTTCACGCAGAAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGTGGTACTGCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGTGGTACTGCTGATAGG	300
Query	301	GTGCTTGCAGATGCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGAACTCCTAAAC	360
Sbjct	301	GTGCTTGCAGATGCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGAACTCCTAAAC	360
Query	361	CTCAAGAAAAACCAACGTAACACCAACCGTCGCCCCACAGGACGTCAGATTCCCGGGTG	420
Sbjct	361	CTCAAGAAAAACCAACGTAACACCAACCGTCGCCCCACAGGACGTCAGATTCCCGGGTG	420
Query	421	GCGGTGAGATCGTTGGTGGAGTTTACTTGTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTGAGATCGTTGGTGGAGTTTACTTGTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGAGCTAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGAGCTAGCCTATCCCCA	540
Query	541	AGGCACGTGCGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTGCGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCGCGGTAGGTGCGCAATTGGGTAAGGTCATCGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCGCGGTAGGTGCGCAATTGGGTAAGGTCATCGATACCCCTTA	720

Query	721	CGTGC	CGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTGC	CGGCCCTCTTGAGGGCG	780
Sbjct	721	CGTGC	CGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTGC	CGGCCCTCTTGAGGGCG	780
Query	781	CTGCC	CAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAAGACGGCGTGA	AACTATGCAACAG	840
Sbjct	781	CTGCC	CAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAAGACGGCGTGA	AACTATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCTCTGCGCCCTGCTCTCTTG	CGCTGACTG	900	
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCTCTGCGCCCTGCTCTCTTG	CGCTGACTG	900	
Query	901	TGCCCGCTTCAGCCTACCAAGTGC	GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960	
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGC	GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960	
Query	961	GCCTTAACCTCGAGTATTGTG	TACGAGGCGGCGGATGCCATCTTCGCACACTCCGGGGTGTG	1020	
Sbjct	961	GCCTTAACCTCGAGTATTGTG	TACGAGGCGGCGGATGCCATCTTCGCACACTCCGGGGTGTG	1020	
Query	1021	TCCTTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTGGGTGGCGGTG	ACCCCCACGGTGG	1080	
Sbjct	1021	TCCTTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTGGGTGGCGGTG	ACCCCCACGGTGG	1080	
Query	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTG	CG	1140	
Sbjct	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTG	CG	1140	
Query	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG		1200	
Sbjct	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG		1200	
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGAGCAAGACTGCAATTGTT		1260	
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGAGCAAGACTGCAATTGTT		1260	
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAATGGT		1320	
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAATGGT		1320	
Query	1321	CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGATGCCACAAGCCATCATGGACA		1380	
Sbjct	1321	CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGATGCCACAAGCCATCATGGACA		1380	
Query	1381	TGATCGCTGGTGCTCACTGGGAGTCTTGGCGGGCATAGCGTATTTCCATGGTGGGA		1440	
Sbjct	1381	TGATCGCTGGTGCTCACTGGGAGTCTTGGCGGGCATAGCGTATTTCCATGGTGGGA		1440	
Query	1441	ACTGGGCGAAGGTCTCTGGTAGTGCTGCTGCTATTTCGGCGGCTGCACGCGGAAACCCAG		1500	
Sbjct	1441	ACTGGGCGAAGGTCTCTGGTAGTGCTGCTGCTATTTCGGCGGCTGCACGCGGAAACCCAG		1500	
Query	1501	TCACCGGGGGAATGCGCGCCGCCACCGGCTGGGCTTGTGTGCTCCTTACACAGGGCG		1560	
Sbjct	1501	TCACCGGGGGAATGCGCGCCGCCACCGGCTGGGCTTGTGTGCTCCTTACACAGGGCG		1560	
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT		1620	
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT		1620	
Query	1621	TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT		1680	
Sbjct	1621	TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT		1680	
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCTTACCGATTGTGCC		1740	
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCTTACCGATTGTGCC		1740	
Query	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTTACTGCT		1800	
Sbjct	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTTACTGCT		1800	
Query	1801	GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCGAAAGAGCGTGTGTGCCCGGTAT		1860	
Sbjct	1801	GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCGAAAGAGCGTGTGTGCCCGGTAT		1860	

Query	1861	ATTGCTTCACTCCACGCCCGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCACGCCCGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCCTTAACAACACAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCCTTAACAACACAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCGTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCGTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCACTGATTGCTTCC	2100
Query	2101	GCAAAATCATCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAAATCATCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCGGTATAGGCTTTGGCAGTATCCCTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCGGTATAGGCTTTGGCAGTATCCCTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGCTGGAAGCGGCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCACACACAGTGGCAGGTCCTTCCGTGTTCTTTACAGACCTCGCAGCCTTGTCAC	2400
Sbjct	2341	TGTCACACACAGTGGCAGGTCCTTCCGTGTTCTTTACAGACCTCGCAGCCTTGTCAC	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGTAGGGT	2460
Query	2461	CAAGCATCGGCTCCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGGCTCCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTGCTCCTGCTTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTGCTCCTGCTTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGCTTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGCTTTGTGT	2640
Query	2641	CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCATCGGACCGGAGGTGGCCGCGTCGTGTGGCGCGGTGTTCTTGTGCGGTTAA	2820
Sbjct	2761	CATACGCATCGGACCGGAGGTGGCCGCGTCGTGTGGCGCGGTGTTCTTGTGCGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCCCGCTCAACGTC	2940
Query	2941	GGGGGGGCGCGATGCGGTCATCTTACTCATGTGTGTAGTACACCCGACCTTGGTATTG	3000
Sbjct	2941	GGGGGGGCGCGATGCGGTCATCTTACTCATGTGTGTAGTACACCCGACCTTGGTATTG	3000

Query	3001	ACATCACAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCTCGTGCAGCTTCAAGGCCTTCTCCGAGTCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCTCGTGCAGCTTCAAGGCCTTCTCCGAGTCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGAGGTCATTACGTGCAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGAGGTCATTACGTGCAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAAGGCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAAGGCTGCGAGATC	3240
Query	3241	TGGCGTGGCTGTGGAAACAGTCGTCTTCTCCGGAATGGAGACCAAGCTCATCAGTGGG	3300
Sbjct	3241	TGGCGTGGCTGTGGAAACAGTCGTCTTCTCCGGAATGGAGACCAAGCTCATCAGTGGG	3300
Query	3301	GGCAGATACGCGCGGTGCGGTGACATCATCAACGGCTTGGCCGCTCTGCGCCGTAGGG	3360
Sbjct	3301	GGCAGATACGCGCGGTGCGGTGACATCATCAACGGCTTGGCCGCTCTGCGCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTGTCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTGTCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCTCCTTAGGGTGTATATACACAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCTCCTTAGGGTGTATATACACAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCAGATCTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCAGATCTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACAGGGGCGGAA	3600
Sbjct	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACAGGGGCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGTGCGCCGCTCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGTGCGCCGCTCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTACCTTGGTACGAGGCACGCCGATGTCTTCCCGTGCGCCGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTACCTTGGTACGAGGCACGCCGATGTCTTCCCGTGCGCCGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCAATTCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCAATTCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGACACGCCGTGGGCTATTACAGGCGCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGACACGCCGTGGGCTATTACAGGCGCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACAGCAGTGCCCGAGAGCTTCCAGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACAGCAGTGCCCGAGAGCTTCCAGTGGCCC	4020
Query	4021	ACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGACGCC	4080
Sbjct	4021	ACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGACGCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGTCAACCCCTCTGTTGTGCAACGCTGGGCTTTGGTGTCT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGTCAACCCCTCTGTTGTGCAACGCTGGGCTTTGGTGTCT	4140

Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Query	4201	CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCCTGTCTTGACCAAGCAGAGACTGCGGGGGCAGAGCTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCCTGTCTTGACCAAGCAGAGACTGCGGGGGCAGAGCTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACGTGTGCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACGTGTGCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCTATGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGCTGTGCTATCC	4620
Sbjct	4561	TGGTCGCTATGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGCTGTGCTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGC	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGC	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTTAGACAAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTTAGACAAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGGAGC	4860
Query	4861	GCCCTCCCGGATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCTCCCGGATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTCCCGGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCCTACTC	5040
Sbjct	4981	GGCTCCCGGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCCTACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTTCCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTTCCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGTATCCGCCTTAAACCCACCTTCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGTATCCGCCTTAAACCCACCTTCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGTGTTCAGAATGAAGTACCCCTGACGCACCCAATCACCAATACATCATGA	5280
Sbjct	5221	GACTGGGCGTGTTCAGAATGAAGTACCCCTGACGCACCCAATCACCAATACATCATGA	5280

Query	5281	CATGCATGTGCGCCGACCTGGAGTTCGTACAGAGCACTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTGCGCCGACCTGGAGTTCGTACAGAGCACTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCGCCATCGAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCGCCATCGAGAGGTTATCA	5580
Query	5581	CCCTGCTGTCAGAGCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCTGCTGTCAGAGCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Query	5701	TGCTTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCAGTGGCCAAACCC	5760
Sbjct	5701	TGCTTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCAGTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTGCCGCCGCCGGTGGCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTGCCGCCGCCGGTGGCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAAG	5880
Sbjct	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAAG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCTCCACGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCTCCACGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATCTGCGCCGGCAGTTG	6060
Sbjct	6001	TCTCGCCTGGAAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATCTGCGCCGGCAGTTG	6060
Query	6061	GCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Sbjct	6061	GCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Query	6121	ACCATGTTTCCCCCAGCCTACTACGTGCCGGAGAGCGATGAGCCGCCCGCGCTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCAGCCTACTACGTGCCGGAGAGCGATGAGCCGCCCGCGCTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGGCACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGGCACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTAACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTAACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTTC	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420

Query	6421	CTCGCTGCACTGTGGAGCTGAGATCACTGGACATGTCAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCA	6540
Sbjct	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCCCTTCCTGCGCCGAACATAAGTTGCGCGTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCCCTTCCTGCGCCGAACATAAGTTGCGCGTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCAGAGCCGGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCAGAGCCGGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCGAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCGAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAAACATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAAACATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAGTGGTGATTCTGGACTCCTTGATCGGCTTGTGGCAGAGGAGTGAAGCGGG	7140
Sbjct	7081	AGAACAAGTGGTGATTCTGGACTCCTTGATCGGCTTGTGGCAGAGGAGTGAAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATCTGCGGGAAGTCTCGGAGATTGCGCCGGGCCCTGCGCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATCTGCGGGAAGTCTCGGAGATTGCGCCGGGCCCTGCGCG	7200
Query	7201	TCTGGGCGCGGCCGAGCTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCTGGGCGCGGCCGAGCTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCGCTACCACTCCACGGTCCCCCTCTGTGCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCGCTACCACTCCACGGTCCCCCTCTGTGCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTAGCGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTAGCGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTGGGAGCTCCTCAACTTCGGGCATTACGGGCGCAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTGGGAGCTCCTCAACTTCGGGCATTACGGGCGCAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCCTCTGGCTGGGGGAGCTCCGACGTTGAGTCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCCTCTGGCTGGGGGAGCTCCGACGTTGAGTCTATTCTT	7500
Query	7501	CCATGCGGGGCTGGAGGGGGAGCTGGGGATCCGGATCTCAGCAGCGGCTATGGTTCGA	7560
Sbjct	7501	CCATGCGGGGCTGGAGGGGGAGCTGGGGATCCGGATCTCAGCAGCGGCTATGGTTCGA	7560

Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTCACGCACTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTCACGCACTGCTTGCC	7740
Query	7741	AAAGGCAGAGAAAGTACATTGACAGACTGCAAGTTCTGGACAGCATTACCAGGAGC	7800
Sbjct	7741	AAAGGCAGAGAAAGTACATTGACAGACTGCAAGTTCTGGACAGCATTACCAGGAGC	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCTGTCGATGCCAGAAAGGCCGTAGCCCCACATCAACTCCGTGTGGAAGACCTTC	7980
Sbjct	7921	ACGTCCTGTCGATGCCAGAAAGGCCGTAGCCCCACATCAACTCCGTGTGGAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAAGACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAAGACGAGGTTTTCTGCG	8040
Query	8041	TTACGCCTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCTGTTCCCGGACCTGGGGC	8100
Sbjct	8041	TTACGCCTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCTGTTCCCGGACCTGGGGC	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCGCTGGCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCGCTGGCGTGA	8160
Query	8161	TGGGAAGCTCCTACGATTCCAATACTACCCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGATTCCAATACTACCCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTACTCCA	8280
Query	8281	CAGTCACGTGAGAGCGACATCCGTACGGAGGAGGCAATTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACGTGAGAGCGACATCCGTACGGAGGAGGCAATTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGGAGCGGCTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGGAGCGGCTACTGACAA	8460
Query	8461	CTAGCTGTGGTAAACCCCTCACTTGTCTACATCAAGGCCGGGCGAGCTGTGAGCGCGAG	8520
Sbjct	8461	CTAGCTGTGGTAAACCCCTCACTTGTCTACATCAAGGCCGGGCGAGCTGTGAGCGCGAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACCGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACCGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGccccccgggggaccccaACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCGGGGACCCCCACAACCAGAATAGGACTTGGAGCTTATAACATCATGCT	8700

Query	8701	CCTCCAACGTGTGAGTCGCCCCACGACGCGCTGGAAAGAGGGICTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTGAGTCGCCCCACGACGCGCTGGAAAGAGGGICTACTACCTTACCCGTG	8760
Query	8761	ACCCCTACAAACCCCTTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATT	8820
Sbjct	8761	ACCCCTACAAACCCCTTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCCTTAGCGTCCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGTGAGA	8940
Sbjct	8881	CCCATTTCCTTAGCGTCCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGTGAGA	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCAGCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACCAGCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCGG	9060
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCGG	9060
Query	9061	CATGCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Query	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Sbjct	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Query	9241	TGTCCGGTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATACAGCGTGTCTCATG	9300
Sbjct	9241	TGTCCGGTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATACAGCGTGTCTCATG	9300
Query	9301	CCCGGCCCGCTGGTTCTGGTTTTGGCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Sbjct	9301	CCCGGCCCGCTGGTTCTGGTTTTGGCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Query	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCTCTTAAAGCATTTCCTGTTT	9420
Sbjct	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCTCTTAAAGCATTTCCTGTTT	9420
Query	9421	tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt	9480
Sbjct	9421	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTC	9480
Query	9481	tttttttttttttttttttttttAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGA	9540
Sbjct	9481	TTTCTTTTTCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGA	9540
Query	9541	AGGTCGGTGAGCCGATGACTGCAGAGAGTGTGATACTGGCCTCTCTGCAGATCATGT	9599
Sbjct	9541	AGGTCGGTGAGCCGATGACTGCAGAGAGTGTGATACTGGCCTCTCTGCAGATCATGT	9599

>gb|GP053754.1| Sequence 13 from patent US 7473772
Length=9599

Score = 1.773e+04 bits (9599), Expect = 0.0
Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCCTGTGAGGAACACTAGT	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCCTGTGAGGAACACTAGT	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGCAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGCAGCCTCCAGGA	120

Query	121	ccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC	360
Query	361	CTCAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAGTCTCCGGGTG	420
Sbjct	361	CTCAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAGTCTCCGGGTG	420
Query	421	GCGGTGAGTCTGTGGTGGATTCTTCTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTGAGTCTGTGGTGGATTCTTCTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGAGCTCAGCCTATCCCCA	540
Sbjct	481	GCGGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGAGCTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTATG	600
Sbjct	541	AGGCACGTCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCTAGCT	660
Query	661	GGGGCCCCACAGACCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCCTTA	720
Query	721	CGTGGCGGTTGCGCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTTTGGAGGGG	780
Sbjct	721	CGTGGCGGTTGCGCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTTTGGAGGGG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCCTGGTGTGCTCTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTGTGCTCTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGGCTGACTG	900
Query	901	TGCCCGGCTTACGCTTACCAAGTGCAGCAATTCCTCGGGGCTTTACCATGTACCAATGATT	960
Sbjct	901	TGCCCGGCTTACGCTTACCAAGTGCAGCAATTCCTCGGGGCTTTACCATGTACCAATGATT	960
Query	961	GCCCTAAGTCAGATTGTGTACGAGGCGGCGATGCCATCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAAGTCAGATTGTGTACGAGGCGGCGATGCCATCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCTTGGCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCTTGGCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGACGCGCAAACTCCCCACAACGACGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Sbjct	1081	CCACCAGGACGCGCAAACTCCCCACAACGACGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Query	1141	GGAGCGCCACCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260

Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCTTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380
Sbjct	1321	CCCTTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGAGTCTGGCGGGCATAGCGTATTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGAGTCTGGCGGGCATAGCGTATTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTGCTATTGGCGGCTCGACGCGGAAACCCAGC	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTGCTATTGGCGGCTCGACGCGGAAACCCAGC	1500
Query	1501	TCACGGGGGAAATGCGGGCCGACACGGCTGGGCTTGTGGTCTCCTTACACAGGCG	1560
Sbjct	1501	TCACGGGGGAAATGCGGGCCGACACGGCTGGGCTTGTGGTCTCCTTACACAGGCG	1560
Query	1561	CCAAGCAGAACTCCAACATGATCAACACCAACGGCAGTGGGCACATCAATAGCAGCGCT	1620
Sbjct	1561	CCAAGCAGAACTCCAACATGATCAACACCAACGGCAGTGGGCACATCAATAGCAGCGCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCTTACCGATTTTGCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCTTACCGATTTTGCC	1740
Query	1741	AGGGCTGGGGTCCCTATCAGTTATGCCAACGGAAGCGGCTCGACGAAGCCCTACTGGT	1800
Sbjct	1741	AGGGCTGGGGTCCCTATCAGTTATGCCAACGGAAGCGGCTCGACGAAGCCCTACTGGT	1800
Query	1801	GGCACTACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAAGACGCTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAAGACGCTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCAGCCCGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCAGCCCGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCTACCT	1920
Query	1921	ACAGCTGGGGTGCAATGATACGGATGTCTTCGTCTTAACAACACAGGCGACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAATGATACGGATGTCTTCGTCTTAACAACACAGGCGACCGCTGG	1980
Query	1981	GCAATTGGTTGCGGTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTGCGGTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACTCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACTCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTGCAGTACCGGTATAGGCTTTGGCACTATCCCTGTACACATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTGCAGTACCGGTATAGGCTTTGGCACTATCCCTGTACACATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGCTGGAAGCGGCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCTCTCCGTGTTCTTTACGACCTTGCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCTCTCCGTGTTCTTTACGACCTTGCAGCCTTGTCCA	2400

Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCTCTCTCGTTCCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCTCTCTCGTTCCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCTCTCTGCTCTCTGCTGGCGTGTGCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCTCTCTGCTCTCTGCTGGCGTGTGCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCCCGCTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCCCGCTCAACGTCC	2940
Query	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTAGTACACCGACCTTGGTATTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTAGTACACCGACCTTGGTATTG	3000
Query	3001	ACATACCAAACCTACTCCTGGCCATCTTCGGACCCCTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACCTACTCCTGGCCATCTTCGGACCCCTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCTACTTCTGTGCGCTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCTACTTCTGTGCGCTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGAGGTGCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGAGGTGCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAAGCCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAAGCCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAAGTCTCTCTCCGAAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAAGTCTCTCTCCGAAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	TGGCAGATACCGCCGCGTGGCGGTGACATCATCAAGCGCTTCCCGTCTCTGCCCCTAGGG	3360
Sbjct	3301	TGGCAGATACCGCCGCGTGGCGGTGACATCATCAAGCGCTTCCCGTCTCTGCCCCTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATACGCGGTACGCCAGCAGACGAGAGGCCCTCTTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATACGCGGTACGCCAGCAGACGAGAGGCCCTCTTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540

Query	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCCGCTATTGACACCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCCGCTATTGACACCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTTCACGAGGCACGCCGATGTGCTTCCCGTGCAGCGCGGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTTCACGAGGCACGCCGATGTGCTTCCCGTGCAGCGCGGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCCGCCCGGCCCAATTCCTACTTGAAGGCTCTCTCGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCCGCCCGGCCCAATTCCTACTTGAAGGCTCTCTCGGGG	3840
Query	3841	GTCGCGTGTGTGCCCGCGGGACACGCCGTGGGCTTATTACGGGCGCGGTGTGACCC	3900
Sbjct	3841	GTCGCGTGTGTGCCCGCGGGACACGCCGTGGGCTTATTACGGGCGCGGTGTGACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTACGGCAACTCCTCTCCACCAGCAGTGCAGGCTTCACAGTGGGCC	4020
Sbjct	3961	CCCCGGTGTTACGGCAACTCCTCTCCACCAGCAGTGCAGGCTTCACAGTGGGCC	4020
Query	4021	ACCTCATGCTCCCAACGGCAGCGGTAAGAGCACCAAGTCCCGGCTGCGTACGACGCC	4080
Sbjct	4021	ACCTCATGCTCCCAACGGCAGCGGTAAGAGCACCAAGTCCCGGCTGCGTACGACGCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTGTGCTGAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTGTGCTGAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTGTATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTGTATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACGTGCTCTTACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACGTGCTCTTACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGTACCCCTCCGGGCTCCGTCACTGTGTCCTCATCTAACATCGAGGAGTTGCTC	4440
Sbjct	4381	CCACTGTACCCCTCCGGGCTCCGTCACTGTGTCCTCATCTAACATCGAGGAGTTGCTC	4440
Query	4441	TGTCCACCAACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCTTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCAACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCTTCGAGGTGATCAAGG	4500
Query	4501	GGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGATTGGGCATCAATGCCGTGGCCTACTACCGCGGCTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGATTGGGCATCAATGCCGTGGCCTACTACCGCGGCTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACACGCGCGATGTTGTGCTGTGTGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACACGCGCGATGTTGTGCTGTGTGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680

Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCTACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCTACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCCTACCTTTACCATTTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCCTACCTTTACCATTTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGAGC	4860
Query	4861	GCCTCCCGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCTCCCGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCAGGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCAGGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAAATTTGGGAGGCGCTTTACGGGCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAAATTTGGGAGGCGCTTTACGGGCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAAGTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAAGTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTGTTGATCCGCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTGTTGATCCGCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGATGAAGTACCCCTGACGCACCAATCACCATAATCATATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGATGAAGTACCCCTGACGCACCAATCACCATAATCATATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTGCTCAGGACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTGCTCAGGACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCTATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCTATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCGGGAAGCGCGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCGGGAAGCGCGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCCCATCGAGAGGTATATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCCCATCGAGAGGTATATCA	5580
Query	5581	CCCTGCTGTCTCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCTGCTGTCTCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGGGTGGCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGGGTGGCGCTA	5820

Query	5821	CTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCTCGTGGACATTCTTGCAGGGTATGGCGGGCGTGGCGGGAGCTCTTGTAGCATTC	5940
Sbjct	5881	TCTCGTGGACATTCTTGCAGGGTATGGCGGGCGTGGCGGGAGCTCTTGTAGCATTC	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCGCCATCC	6000
Query	6001	TCTCGCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTG	6060
Sbjct	6001	TCTCGCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGGCTTCGCCCTCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGGCTTCGCCCTCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGCGCACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGCGCACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGGCTGGGATT	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGGCTGGGATT	6360
Query	6361	CCTTTGTGTCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCA	6540
Sbjct	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCA	6540
Query	6541	CGGGCCCCGTGATCTCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGATCTCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGAGC	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGAGC	6720
Query	6721	GGGTGCGCTACACAGGTTTGCGCCCTTGAAGCCCTTGCTGCGGGAGGAGTATCAT	6780
Sbjct	6721	GGGTGCGCTACACAGGTTTGCGCCCTTGAAGCCCTTGCTGCGGGAGGAGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCACAATTACCTTGCAGGCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCACAATTACCTTGCAGGCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960

Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Query	7201	CTTGGGCGCGCGCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	CTTGGGCGCGCGCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCCTCCG	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCCTCCG	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGCCCCCGTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAATGTCGA	7560
Sbjct	7501	CCATGCCCCCGTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAATGTCGA	7560
Query	7561	CGGTGAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCGGA	7620
Sbjct	7561	CGGTGAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAATAAGTCCCATCAACGCATGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAATAAGTCCCATCAACGCATGA	7680
Query	7681	GCAACTCGTGTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTCACGCAGTGCTTGC	7740
Sbjct	7681	GCAACTCGTGTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTCACGCAGTGCTTGC	7740
Query	7741	AAAGGCAGAGAAGATGACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAGC	7800
Sbjct	7741	AAAGGCAGAGAAGATGACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAGC	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGACGCTTGACGCCCAATCAGCCCAATCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGACGCTTGACGCCCAATCAGCCCAATCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTGTCATGCGAGAAAGCCGTAGCCCAACATCAACTCCGTGTGGAAGACCTTC	7980
Sbjct	7921	ACGTCCGTGTCATGCGAGAAAGCCGTAGCCCAACATCAACTCCGTGTGGAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTACGCTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTCCCCGACCTGGGGC	8100
Sbjct	8041	TTACGCTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTCCCCGACCTGGGGC	8100

Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGAATCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGAATCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CAAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Sbjct	8401	CAAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Query	8461	CTAGCTGTGGTAAACACCCCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTGCGAGCCGAG	8520
Sbjct	8461	CTAGCTGTGGTAAACACCCCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTGCGAGCCGAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGCAGCACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGTGGCGCAGCACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGccccccccggggacccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTGAGTCGCCCCACGACGGCGCTGGAAGAGGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTGAGTCGCCCCACGACGGCGCTGGAAGAGGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CTTGCTTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CTTGCTTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCCCTATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGTGAGA	8940
Sbjct	8881	CCCATTTCTTTAGCGTCCCTATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGTGAGA	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001	ATGGCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Query	9061	CATGCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCCGGAGCG	9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Query	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGCTGGACT	9240
Sbjct	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGCTGGACT	9240

9/8/2009

Query	661	GGGGCCCCACAGACCCCGGCGTAGGTGCGCAATTGGGTAAGGTCATGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCGGCGTAGGTGCGCAATTGGGTAAGGTCATGATACCCCTTA	720
Query	721	CTGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTGGCGGCCCTCTTGGAGGGG	780
Sbjct	721	CTGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTGGCGGCCCTCTTGGAGGGG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCTCGTTGCTCTTTCTCTATCTTCTTCTGCGCCCTGCTCTCTTGCTGACTG	900
Sbjct	841	GGAACCTTCTCGTTGCTCTTTCTCTATCTTCTTCTGCGCCCTGCTCTCTTGCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCAGCAATTCCTCGGGGCTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCAGCAATTCCTCGGGGCTTACCATGTCACCAATGATT	960
Query	961	GCCTTAACCTGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCTTAACCTGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCTTTGCGTTTCGCGAGGGTAACGCCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCTTTGCGTTTCGCGAGGGTAACGCCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Sbjct	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Query	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACGTGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACGTGT	1320
Query	1321	CCCCATCGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAACAGCCATCATGGACA	1380
Sbjct	1321	CCCCATCGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAACAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTACTGGGAGTCTCTGGCGGGCATAGCGTATTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTACTGGGAGTCTCTGGCGGGCATAGCGTATTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGTGCTGCTATTGTGCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGTGCTGCTATTGTGCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGAAATGCCGCGCGCACCCAGGCTGGGCTTGTGGTCTCCTTACACAGGCG	1560
Sbjct	1501	TCACCGGGGAAATGCCGCGCGCACCCAGGCTGGGCTTGTGGTCTCCTTACACAGGCG	1560
Query	1561	CAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCAGATCAATAGCAGGCGCT	1620
Sbjct	1561	CAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCAGATCAATAGCAGGCGCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGTGCCGACGCTTACCATTTTGGCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGTGCCGACGCTTACCATTTTGGCC	1740
Query	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTGCT	1800

Query	1801	GGCACTACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGCCCCGGTAT	1860
Sbjct	1801	GGCACTACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGCCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCAGGCCCGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCTTACCT	1920
Sbjct	1861	ATTGCTTCACTCCAGGCCCGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCTTACCT	1920
Query	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCTTAAACAACACAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCTTAAACAACACAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCTTGTGTGTCATCGAGGGGTGGGCAACAACACCTTGTCTTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCTTGTGTGTCATCGAGGGGTGGGCAACAACACCTTGTCTTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAAATCATCGGAAGCCACATACCTCTCGGTGCGGGTCCCGTCCCTGGATTACACCAGGT	2160
Sbjct	2101	GCAAAATCATCGGAAGCCACATACCTCTCGGTGCGGGTCCCGTCCCTGGATTACACCAGGT	2160
Query	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACCGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCTTGCTCG	2340
Sbjct	2281	CGCGGGGCGAACCGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCTTGCTCG	2340
Query	2341	TGTCACCACACAGTGGCAGGTCTCTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCTCA	2400
Sbjct	2341	TGTCACCACACAGTGGCAGGTCTCTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCTCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCCTCTCCTCTGCTCTGCTGCGGTGCTCTACGCGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCCTCTCCTCTGCTCTGCTGCGGTGCTCTACGCGG	2760
Query	2761	CATACGCACTGGACAGGAGTGGCCGCGTCTGTGTGGCGCGTTGTTCTTGTGCGGTTAA	2820
Sbjct	2761	CATACGCACTGGACAGGAGTGGCCGCGTCTGTGTGGCGCGTTGTTCTTGTGCGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCAAGTCC	2940
Sbjct	2881	AGTATTTTCTGACAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCAAGTCC	2940

Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTAGTACACCCGACCCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTAGTACACCCGACCCCTGGTATTTG	3000
Query	3001	ACATCACCAAACTACTCTCTGGCCATCTTCGGACCCCTTTGGATTCTCTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACTACTCTCTGGCCATCTTCGGACCCCTTTGGATTCTCTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCTCGTGC GCGTTCAAGGCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCTCGTGC GCGTTCAAGGCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAAGCCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAAGCCCTGCGAGATC	3240
Query	3241	TGGCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATACAGTGGG	3300
Sbjct	3241	TGGCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATACAGTGGG	3300
Query	3301	GGCGAGATACGCCCGCGTGGGTGACATCATCAACGGCTTGGCCGCTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGCGAGATACGCCCGCGTGGGTGACATCATCAACGGCTTGGCCGCTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCGAGCCGACGGAATGGTCTCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCGAGCCGACGGAATGGTCTCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATACCAAGCC	3480
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Query	3841	GTCCGCTGTGTGTCGCCCGGGGACACGCCGTGGGCTATTTCAGGGCCGCGGTGTGACCC	3900
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Query	4021	ACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGACGCC	4080
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Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
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Sbjct	5881	TCCTCGTGGACATTC	TTCAGGGTATGGCGGGCGTGGCGGGAGCT	CTTTAGCATTCA		5940
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Sbjct	6001	TCTCGCCTGGAGCCCTT	TGAGTCGGTGTGGTCTGCGCAGCAAT	TGCGCCGGCACGTTG		6060
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Score = 1.773e+04 bits (9599), Expect = 0.0
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Query	61	TCITCACGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCGAGCCTCCAGGA	120
Sbjct	61	TCITCACGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCGAGCCTCCAGGAC	120
Query	121	ccccccTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCTTTTCTGGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCTTTTCTGGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGAGTGCCCGGGAGGTCCTGTAGACCGTGCACCATGAGCAGCAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGAGTGCCCGGGAGGTCCTGTAGACCGTGCACCATGAGCAGCAATCCTAAAC	360
Query	361	CTCAAGAAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAAGTCCCGGGTG	420
Sbjct	361	CTCAAGAAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAAGTCCCGGGTG	420
Query	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTTCGCCGCGAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTTCGCCGCGAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Sbjct	481	GCGGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Query	541	AGGCACGTTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCCTTGGCCCTCTATG	600
Sbjct	541	AGGCACGTTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCCTTGGCCCTCTATG	600
Query	601	GCAATGAGGGTTCGGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGCT	660
Sbjct	601	GCAATGAGGGTTCGGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA	720
Query	721	CTGTCGGCTTCGCCGACCTCATGGGGTACATACCGCTCTGTCGGCGCCCTCTTGAGAGCG	780
Sbjct	721	CTGTCGGCTTCGCCGACCTCATGGGGTACATACCGCTCTGTCGGCGCCCTCTTGAGAGCG	780
Query	781	CTGCCAGGGCCCTGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACTTCCTGGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGCTGACTG	900
Sbjct	841	GGAACTTCCTGGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCAGCAATTCCTCGGGGCTTTACCATGTACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCAGCAATTCCTCGGGGCTTTACCATGTACCAATGATT	960
Query	961	GCCCTTACGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTTACGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCTTTCGCTTCGCGAGGGTAACGCCTCGAGGTGTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCTTTCGCTTCGCGAGGGTAACGCCTCGAGGTGTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACGAGGACGCGAAACTCCCCACAACGAGCTTCGACGTCATATCGATCTGCTTGTG	1140
Sbjct	1081	CCACGAGGACGCGAAACTCCCCACAACGAGCTTCGACGTCATATCGATCTGCTTGTG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200

Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACGTGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACGTGT	1320
Query	1321	CCCCTACGCGAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAACAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGCGAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAACAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTACTGGGGAGTCTGGCGGGCATAGCGTATTTCCTCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTACTGGGGAGTCTGGCGGGCATAGCGTATTTCCTCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTGCTATTTCGCCGCGCTGACGCGGAAACCCAG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTGCTATTTCGCCGCGCTGACGCGGAAACCCAG	1500
Query	1501	TACCGGGGGAATGCGGGCCGACACGGCTGGGCTTGTGTGCTCCCTACACACAGGG	1560
Sbjct	1501	TACCGGGGGAATGCGGGCCGACACGGCTGGGCTTGTGTGCTCCCTACACACAGGG	1560
Query	1561	CCAAGCAGAACTCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
Sbjct	1561	CCAAGCAGAACTCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTACAGCTGTCTGAGAGGTTGGCCAGTGCACGCGCTTACCGATTTCGCC	1740
Sbjct	1681	TCAACTCTTACAGCTGTCTGAGAGGTTGGCCAGTGCACGCGCTTACCGATTTCGCC	1740
Query	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCTTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCGGTAT	1860
Sbjct	1801	GGCACTACCTTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCGAGCCCGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCGAGCCCGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCTTAACAACACACAGGCCACCGTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCTTAACAACACACAGGCCACCGTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCTTGTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCTTGTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCACTGATTGCTTCC	2100
Query	2101	GCAAACTCCGGAAGCCACATACTCTCGGTGCGGCTCCGTCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACTCCGGAAGCCACATACTCTCGGTGCGGCTCCGTCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCGGTATAGGCTTTGGCACTATCCTTGATACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCGGTATAGGCTTTGGCACTATCCTTGATACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGTTCGAGCACAGGCTGGAAGCGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGTTCGAGCACAGGCTGGAAGCGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAAGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAAGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCGTTGCTGC	2340

Query	2341	TGTCACCACACAGTGGCAGGTCTCTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCACCACACAGTGGCAGGTCTCTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCA	2400
Query	2401	CGGGCTCATCCACCTCCACAGAACATGTGGACGTGCAGTACTTGTACGGGTAGGGT	2460
Sbjct	2401	CGGGCTCATCCACCTCCACAGAACATGTGGACGTGCAGTACTTGTACGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCTTG	2520
Query	2521	CAGACGCGCGCTGCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTGCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGGAGCGG	2700
Sbjct	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCACGCGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCACGCGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGCGGTGTCTTGTTCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGCGGTGTCTTGTTCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCAATGTGGTGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCAATGTGGTGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACACGTC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACACGTC	2940
Query	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCGACCTGGTATTG	3000
Sbjct	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCGACCTGGTATTG	3000
Query	3001	ACATACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTGC	3060
Sbjct	3001	ACATACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTGC	3060
Query	3061	TTAAAGTCCCTACTTCTGTCGCGCTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCTACTTCTGTCGCGCTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCCTGCGAGATC	3240
Query	3241	TGGCGTGGCTGTGGAAACAGTCGTCTTCTCCGGAATGGAGACCAAGCTCATACAGTGGG	3300
Sbjct	3241	TGGCGTGGCTGTGGAAACAGTCGTCTTCTCCGGAATGGAGACCAAGCTCATACAGTGGG	3300
Query	3301	GGGCAGATACGCGCGGTGCGGTGACATCATCAACGGCTTGCCTGCTCTGCGCGTAGGG	3360
Sbjct	3301	GGGCAGATACGCGCGGTGCGGTGACATCATCAACGGCTTGCCTGCTCTGCGCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCC	3480

Query	3481	TGACTGGCGGGGACAAAAACCAAGTGGAGGGTGAGGTCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCGGGGACAAAAACCAAGTGGAGGGTGAGGTCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAAGGGGCGGAA	3600
Sbjct	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAAGGGGCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCCGCTATTGACACCCGTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCCGCTATTGACACCCGTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTTACCTGGTACGAGGCACGCCGATGTCTATCCCGTGCAGCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTTACCTGGTACGAGGCACGCCGATGTCTATCCCGTGCAGCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCGGCCCAATTCCTACTTGAAAGGCTTCCTGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCGGCCCAATTCCTACTTGAAAGGCTTCCTGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCCTATTACGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCCTATTACGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCTCCACAGCAGTGCCCCAGAGCTTCCAGTGGGCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCTCCACAGCAGTGCCCCAGAGCTTCCAGTGGGCC	4020
Query	4021	ACCTGCATGCTCCACCGGCAGCGGTAAAGACCAAGGTCGCCGTGCGTACGACAGCC	4080
Sbjct	4021	ACCTGCATGCTCCACCGGCAGCGGTAAAGACCAAGGTCGCCGTGCGTACGACAGCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTGTGCTGAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTGTGCTGAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Query	4201	CTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGTCTAG	4260
Sbjct	4201	CTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGTCTAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCTATCCATCAACATCAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCTATCCATCAACATCAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCAGAGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCAGAGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGATTGGGCATCAATGCCGTGGCTACTACCGCGGTCTTGACGTGTCTGTCAATC	4620
Sbjct	4561	TGGTCGATTGGGCATCAATGCCGTGGCTACTACCGCGGTCTTGACGTGTCTGTCAATC	4620

Query	4621	CGACCAGCGGCGATGTTGTCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTTAGACAAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTTAGACAAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTTGGCACCGGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTTCTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGCTGTGCTT	4920
Sbjct	4861	GCCCTCCGGCATGTTTCTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCAGGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCAGGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTTACGGGCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTTACGGGCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCAGACAAAGCAGAGTGGGGAGAAGTTTCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTTATCCAGACAAAGCAGAGTGGGGAGAAGTTTCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGTATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGTATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGATGAAGTCACCTGACGCAACCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGATGAAGTCACCTGACGCAACCAATCACCAAATACATCATGA	5280
Query	5281	CATGCTATGTCGGCCGACCTGGAGTCTGTACGAGACCTGGGTGCTCGTTGGCGGCTGC	5340
Sbjct	5281	CATGCTATGTCGGCCGACCTGGAGTCTGTACGAGACCTGGGTGCTCGTTGGCGGCTGC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGACAGACCGCGTCCGCCATCGAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGACAGACCGCGTCCGCCATCGAGAGGTTATCA	5580
Query	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCACTGGCCAAACCC	5760

Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGCAGCGTGGAGTGGGGAAAG	5880
Sbjct	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGCAGCGTGGAGTGGGGAAAG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATATCGCCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATATCGCCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Query	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGCGGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGCGGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACCTCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACCTCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCCAACTGCCTGGGATTG	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCCAACTGCCTGGGATTG	6360
Query	6361	CCTTTGTGTCTGCCAGCGCGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTGCCAGCGCGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAAAGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAAAGCCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCGCGTGCAGATCCCATCGCCCGAATTTTACAGAAATTGGAGC	6720
Sbjct	6661	CTGACAATCTTAAATGCGCGTGCAGATCCCATCGCCCGAATTTTACAGAAATTGGAGC	6720
Query	6721	GGGTGCGCTACACAGGTTTGCGCCCTTGCAAGCCCTTGTCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCTACACAGGTTTGCGCCCTTGCAAGCCCTTGTCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGTTGGGGTCGCAATTACCTTGCAGAGCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGTTGGGGTCGCAATTACCTTGCAGAGCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900

Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CGGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CGGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGCGCGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGCGCGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATGAGCGGG	7140
Query	7141	AGGTCCTCCGTACCTGCAGAAATTCTCGGGAAGTCTCGGAGATTGCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCCTCCGTACCTGCAGAAATTCTCGGGAAGTCTCGGAGATTGCCCGGGCCCTGCCCG	7200
Query	7201	CTTGGGCGCGGCCGCGACTACAACCCCCCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	CTTGGGCGCGGCCGCGACTACAACCCCCCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCTCCCG	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCTCCCG	7320
Query	7321	CTCGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCTATTCTT	7500
Query	7501	CCATGCCCCCGTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCTGA	7560
Sbjct	7501	CCATGCCCCCGTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCTGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACATGCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACATGCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAACTCGGTGATTCCACCACCTTCACGCACTGCTTGGC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAACTCGGTGATTCCACCACCTTCACGCACTGCTTGGC	7740
Query	7741	AAAGGCAGAGAAGGTACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAGC	7800
Sbjct	7741	AAAGGCAGAGAAGGTACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAGC	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGATAGAG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGATAGAG	7860
Query	7861	AAGCTTGACGCTTGACGCCGCCACATTACGCCAAATCCAAGTTTGGCTATGGGCAAAAG	7920
Sbjct	7861	AAGCTTGACGCTTGACGCCGCCACATTACGCCAAATCCAAGTTTGGCTATGGGCAAAAG	7920
Query	7921	ACGTCGGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTC	7980
Sbjct	7921	ACGTCGGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040

Query	8041	TTACAGCCTGAGAAAGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTACAGCCTGAGAAAGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCTCGGCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCTCGGCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTACTCCA	8280
Sbjct	8221	CGTGGAAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCCTCACTTGTACATCAAGGCCCGGGCAGCCTGTGCGAGCCGAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCCTCACTTGTACATCAAGGCCCGGGCAGCCTGTGCGAGCCGAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACCGAGGCTATGACCAAGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACCGAGGCTATGACCAAGTACT	8640
Query	8641	CCGCCCCCCCCGGGGACCCCCACAACCAAGATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCGGGGACCCCCACAACCAAGATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGTCTACTACCTTACCCTGT	8760
Sbjct	8701	CCTCCAACGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGTCTACTACCTTACCCTGT	8760
Query	8761	ACCTTACACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATT	8820
Sbjct	8761	ACCTTACACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATATCATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATATCATGA	8880
Query	8881	CCCATTTCTTTAGCGTCCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACCTGTGAGA	8940
Sbjct	8881	CCCATTTCTTTAGCGTCCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACCTGTGAGA	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACTTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACTTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGTGGCGG	9060
Sbjct	9001	ATGGCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGTGGCGG	9060
Query	9061	CATGCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCCGGAGCG	9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180

Query	1	GCCAGCCCTGATGGGGGCGACATCCACCATGAATCACTCCCCTGTGAGGAACACTGTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACATCCACCATGAATCACTCCCCTGTGAGGAACACTGTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCCTCCAGGA	120
Query	121	GGGGGCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	GGGCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	CACGACCGGGTCTTTCTTGGATAAACCGCTCAATGGCTGGAGATTGGGGGTGCGCCC	240
Sbjct	181	GACGACCGGGTCTTTCTTGGATAAACCGCTCAATGGCTGGAGATTGGGGGTGCGCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAGAGCCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAGAGCCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATAGCACAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATAGCACAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCGCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCGCCGGGTG	420
Query	421	GCGGTGAGATCGTTGGTGGAGTTTACTTGTGTCGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTGAGATCGTTGGTGGAGTTTACTTGTGTCGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTGAGCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTGAGCTATCCCCA	540
Query	541	AGGCACGTGCGGCCGAGGCGAGGACTGGGCTGACGCCGGGTACCTTGGCCCTCTATG	600
Sbjct	541	AGGCACGTGCGGCCGAGGCGAGGACTGGGCTGACGCCGGGTACCTTGGCCCTCTATG	600

Query	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCAGTCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCAGTCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCCTTA	720
Query	721	CGTGCGGCTTCGCGGACCTCATGGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGGG	780
Sbjct	721	CGTGCGGCTTCGCGGACCTCATGGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGGG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCCGTGTGCTCTTCTCTATCTTCCTTCGCGCCCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACCTTCCGTGTGCTCTTCTCTATCTTCCTTCGCGCCCTGCTCTCTTGGCTGACTG	900
Query	901	TGCCCGCTTCAGCTACCAAGTCGCGCAATTCCTCGGGGCTTTACCATGTACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCTACCAAGTCGCGCAATTCCTCGGGGCTTTACCATGTACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCTTTCGTTTCGCGAGGGTAACGCCCTCGAGGTGTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCTTTCGTTTCGCGAGGGTAACGCCCTCGAGGTGTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CACACAGGGACGCGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Sbjct	1081	CACACAGGGACGCGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACGTGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACGTGT	1320
Query	1321	CCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380
Sbjct	1321	CCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTACTGGGGAGTCTTGGCGGGCATAGCGTATTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTACTGGGGAGTCTTGGCGGGCATAGCGTATTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCTCTGGTAGTGTCTGCTGCTATTTCGCGGCGTCGACGCGGAAACCCAG	1500
Sbjct	1441	ACTGGGCGAAGGTCTCTGGTAGTGTCTGCTGCTATTTCGCGGCGTCGACGCGGAAACCCAG	1500
Query	1501	TACCGGGGGAATGCGGCGCGACACCGGCTGGGCTTGTGGTCTCCTTACACAGGGG	1560
Sbjct	1501	TACCGGGGGAATGCGGCGCGACACCGGCTGGGCTTGTGGTCTCCTTACACAGGGG	1560
Query	1561	CAAAGCAGAACATCCAACGATGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
Sbjct	1561	CAAAGCAGAACATCCAACGATGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
Query	1621	TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCTTACCGATTTTGGCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCTTACCGATTTTGGCC	1740

Query	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACCTCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACCTCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCCTCGTCTTAAACAACACAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCCTCGTCTTAAACAACACAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCTTGTGTGTCATCGAGGGGTGGGCAACAACACCTTGCTGTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCTTGTGTGTCATCGAGGGGTGGGCAACAACACCTTGCTGTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAAGCCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAAGCCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCACCACACAGTGGCAGGTCTCTCCGTGTTCTTTACAGACCCCTGCCAGCCTTGTCCTA	2400
Sbjct	2341	TGTCACCACACAGTGGCAGGTCTCTCCGTGTTCTTTACAGACCCCTGCCAGCCTTGTCCTA	2400
Query	2401	CGGCTCATCCACCTCCACCAGAACATTGTGGACGTGAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CGGCTCATCCACCTCCACCAGAACATTGTGGACGTGAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAGCATCGGCTCCTGGGCAATTAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCTTG	2520
Sbjct	2461	CAGCATCGGCTCCTGGGCAATTAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCTTG	2520
Query	2521	CAGACGCGCGCTGCTCCTGCTTTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTGCTCCTGCTTTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGCTTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGCTTTGTGT	2640
Query	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCGGAGCGG	2700
Sbjct	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCGGAGCGG	2700
Query	2701	CTACGCCCTCTACGGGATGTGGCCTCTCCTCTGCTCTGCTGCGGTTGCTCAGCGGG	2760
Sbjct	2701	CTACGCCCTCTACGGGATGTGGCCTCTCCTCTGCTCTGCTGCGGTTGCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAAGTGGCCGCTCGTGTGGCGCGTGTGTTCTGTGCGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAAGTGGCCGCTCGTGTGGCGCGTGTGTTCTGTGCGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGTGGTGCATGTGGTGGCTTC	2880

Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCCCTCCCTCAACGTC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCTCCCTCAACGTC	2940
Query	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCGACCGTGGTATTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCGACCGTGGTATTG	3000
Query	3001	ACATACCAAACACTACTCTCGGCCATCTTCGACCCCTTTGGATTCTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACACTACTCTCGGCCATCTTCGACCCCTTTGGATTCTCAAGCCAGTTTGC	3060
Query	3061	TAAAGTCCCTACTTCTGTCGCGTTCAAGGCTTCTCCGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TAAAGTCCCTACTTCTGTCGCGTTCAAGGCTTCTCCGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCACTCGTCTTCTCCCGAATGGAGACCAAGCTCATACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCACTCGTCTTCTCCCGAATGGAGACCAAGCTCATACGTGGG	3300
Query	3301	GGGAGATACCGCCGCGTGGGTGACATCATCAACGGCTTGGCCGCTCTGCGCGTAGGG	3360
Sbjct	3301	GGGAGATACCGCCGCGTGGGTGACATCATCAACGGCTTGGCCGCTCTGCGCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCAAGGGGTGGAGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCAAGGGGTGGAGTTGCTGG	3420
Query	3421	CGCCCATACGCGGTACGCCAGCAGACGAGAGGCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATACGCGGTACGCCAGCAGACGAGAGGCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAACGGGCGCGAA	3600
Sbjct	3541	AAACCTTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAACGGGCGCGAA	3600
Query	3601	CGAGGACCATCGATCACCAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGATCACCAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTATTGACACCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTATTGACACCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTGCTTCCCGTGCAGCGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTGCTTCCCGTGCAGCGCGAGGTG	3780
Query	3781	ATAGAGGGGTAGCCTGCTTTTCGCCCGGCCAATTCCTACTTGAAGGCTCTCCGGGGG	3840
Sbjct	3781	ATAGAGGGGTAGCCTGCTTTTCGCCCGGCCAATTCCTACTTGAAGGCTCTCCGGGGG	3840
Query	3841	GTCGCGTGTGTGCCCGCGGGACACGCGTGGGCTATTACAGGGCGCGGTGTGACCC	3900
Sbjct	3841	GTCGCGTGTGTGCCCGCGGGACACGCGTGGGCTATTACAGGGCGCGGTGTGACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGACAAACATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGACAAACATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCTCTCCACCAGCAGTCCCCAGAGCTTCCAGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCTCTCCACCAGCAGTCCCCAGAGCTTCCAGTGGCCC	4020

Query	4021	ACCTGCATGCTCCACCGGCAGCGTAAAGACCAAGGTC	CGCGTGC	TACGACAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCACCGGCAGCGTAAAGACCAAGGTC	CGCGTGC	TACGACAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT			4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT			4140
Query	4141	ACATGTCCAAGGCCATGCGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA			4200
Sbjct	4141	ACATGTCCAAGGCCATGCGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA			4200
Query	4201	CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG			4260
Sbjct	4201	CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG			4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT			4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT			4320
Query	4321	TGGGCATCGGCATGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTGTGCTCG			4380
Sbjct	4321	TGGGCATCGGCATGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTGTGCTCG			4380
Query	4381	CCACTGTACTCCCTCCGGGCTCCGTCACGTGTGCCCATCTTAACATCGAGGAGTTGTCT			4440
Sbjct	4381	CCACTGTACTCCCTCCGGGCTCCGTCACGTGTGCCCATCTTAACATCGAGGAGTTGTCT			4440
Query	4441	TGTCCACCACCGGAGAGATCCCCCTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG			4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCCTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG			4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGC			4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGC			4560
Query	4561	TGGTCGCAATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC			4620
Sbjct	4561	TGGTCGCAATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC			4620
Query	4621	CGACCAGCGCGATGTTGTCGTCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGG			4680
Sbjct	4621	CGACCAGCGCGATGTTGTCGTCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGG			4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTACTCAGACAGTCGATTTACGCCTTG			4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTACTCAGACAGTCGATTTACGCCTTG			4740
Query	4741	ACCTTACCTTTACCATTTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC			4800
Sbjct	4741	ACCTTACCTTTACCATTTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC			4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGGAGC			4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGGAGC			4860
Query	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACCGGGGTGTGCTT			4920
Sbjct	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACCGGGGTGTGCTT			4920
Query	4921	GGTATGAGCTCAGCCCCCGGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG			4980
Sbjct	4921	GGTATGAGCTCAGCCCCCGGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG			4980
Query	4981	GGCTTCCGCTGTGCGCAGGACCATCTTGAAATTTGGGAGGCGCTTTTACGGGCCCTACTC			5040
Sbjct	4981	GGCTTCCGCTGTGCGCAGGACCATCTTGAAATTTGGGAGGCGCTTTTACGGGCCCTACTC			5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGAGAACTTTCCTTACCTGG			5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGAGAACTTTCCTTACCTGG			5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGA			5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGA			5160

Query	5161	TGTGGAAGTGTGTTGATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTGTTGATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAGAAATGAAGTCACCTGACGCACCCAATCACCAAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAGAAATGAAGTCACCTGACGCACCCAATCACCAAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCGCGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCGCGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATCGAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATCGAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCGTGGTAACCCGCCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCGTGGTAACCCGCCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTggggggTGGTGGCTGCCAGCTCGCCGCCCGCGTGGCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTggggggTGGTGGCTGCCAGCTCGCCGCCCGCGTGGCGCTA	5820
Query	5821	CTGCCCTTTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGAAGG	5880
Sbjct	5821	CTGCCCTTTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTC	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTC	5940
Query	5941	AGATCATGAGCGGTGAGGTCCTCCACGAGGACCTGGTCAATCTGCTGCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCTCCACGAGGACCTGGTCAATCTGCTGCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCTTCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCTTCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCACGCACTACGTGCGGAGAGCGATGACGCGCCGCGGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCACGCACTACGTGCGGAGAGCGATGACGCGCCGCGGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACCTCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACCTCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300

Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Query	6361	CCTTTGTGTCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTACACCA	6540
Sbjct	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTACACCA	6540
Query	6541	CGGGCCCTGTACTCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCTGTACTCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGAGC	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGAGC	6720
Query	6721	GGGTGCGCTACACAGGTTTGCGCCCTTGCAGCCCTTGTCTGCGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCTACACAGGTTTGCGCCCTTGCAGCCCTTGTCTGCGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGGCCGAACCCG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGGCCGAACCCG	6840
Query	6841	ACGTAGCCGTGTTGACGTCATGCTACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCATGCTACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Query	7201	CTGGGCGCGGCGGACTACAAACCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	CTGGGCGCGGCGGACTACAAACCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACTGTGGTCCATGGCTGCCCGCTACCACTTCACGGTCCCTCCTGTGCTTCGCG	7320
Sbjct	7261	AACCACTGTGGTCCATGGCTGCCCGCTACCACTTCACGGTCCCTCCTGTGCTTCGCG	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440

Query	7441	CATCCTCTGAGCCCGCCCTTCTGGCTG	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCTTCTGGCTG	7500
Query	7501	CCATG	7560
Sbjct	7501	CCATG	7560
Query	7561	CGGTGAGTAGTGGGGCCGACACGGAAGATGTCGTGTCTGCTCAATGCTTATTCTCTGGA	7620
Sbjct	7561	CGGTGAGTAGTGGGGCCGACACGGAAGATGTCGTGTCTGCTCAATGCTTATTCTCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAATAATGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAATAATGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTGTGCTACGCCATCACAATCTGGTGTATTCACCACTTCACGCAGTGTCTGCC	7740
Sbjct	7681	GCAACTCGTGTGCTACGCCATCACAATCTGGTGTATTCACCACTTCACGCAGTGTCTGCC	7740
Query	7741	AAAGGCAGAGAAGATGACATTGACAGACTGCAAGTCTGGACAGCATTACACGAGAGC	7800
Sbjct	7741	AAAGGCAGAGAAGATGACATTGACAGACTGCAAGTCTGGACAGCATTACACGAGAGC	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGACGCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGACGCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTGTGCCATGCCAGAAAGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTC	7980
Sbjct	7921	ACGTCCGTGTGCCATGCCAGAAAGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAAGAGGTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAAGAGGTTTCTGCG	8040
Query	8041	TTACGCTGAGAGAAGGGGGTCGTAAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTACGCTGAGAGAAGGGGGTCGTAAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCTTGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCTTGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTATGTTGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTATGTTGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCTACTGACAA	8460
Query	8461	CTAGCTGTGGTTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGAG	8520
Sbjct	8461	CTAGCTGTGGTTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580

Score = 1.773e+04 bits (9599), Expect = 0.0
Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAACTACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAACTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCGAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCGAGCCTCCAGGAC	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCTTTCTTGGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCTTTCTTGGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGAGTGCCCGGGAGGTCCTGTAGACCGTGCACCATGAGCAGCAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGAGTGCCCGGGAGGTCCTGTAGACCGTGCACCATGAGCAGCAATCCTAAAC	360
Query	361	CTCAAGAAAAAACCAACGTAACACCAACCGTCGCCCCACAGGACGTCAAGTCCCGGGTG	420
Sbjct	361	CTCAAGAAAAAACCAACGTAACACCAACCGTCGCCCCACAGGACGTCAAGTCCCGGGTG	420
Query	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGGCCGCGAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGGCCGCGAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGGCAGCAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTACGCTATCCCCA	540
Sbjct	481	GCGGCAGCAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTAGCCTATCCCCA	540
Query	541	AGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTATATG	600
Sbjct	541	AGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTATATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCGGGAATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCGGGAATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCTAGGTGCGCAATTGGGTAAGGTCATCGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCTAGGTGCGCAATTGGGTAAGGTCATCGATACCCCTTA	720
Query	721	CGTGGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTGGCGCCCTCTTGGAGGCG	780
Sbjct	721	CGTGGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTGGCGCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCTGGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGCTGACTG	900
Sbjct	841	GGAACCTTCTGGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGCTGACTG	900
Query	901	TGCCCGCTTCAGCTACCAAGTGCGAATTCTCGGGGCTTTACCATGTACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCTACCAAGTGCGAATTCTCGGGGCTTTACCATGTACCAATGATT	960
Query	961	GCCTTAACTCGAGTATTGTGTACGAGGCGGCGGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCTTAACTCGAGTATTGTGTACGAGGCGGCGGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCTTTCGCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCTTTCGCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCAACACGAGCTTCAGAGTCATATCGATCTGCTTGTGC	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCAACACGAGCTTCAGAGTCATATCGAICTGCTTGTGC	1140

Query	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGAGCAGCGAAGACTGCAAITGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGAGCAGCGAAGACTGCAAITGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTTCATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTTCATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTACTGGGAGTCTCTGGCGGGCATAGCGTATTTCCTCATGGTGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTACTGGGAGTCTCTGGCGGGCATAGCGTATTTCCTCATGGTGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTCTATTGCGCGCGTGCACGCGGAAACCCAGC	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTCTATTGCGCGCGTGCACGCGGAAACCCAGC	1500
Query	1501	TCACCGGGGAAATGCCGCGCCGACACGGCTGGGCTTGTGTGCTCTCCTTACACAGGGC	1560
Sbjct	1501	TCACCGGGGAAATGCCGCGCCGACACGGCTGGGCTTGTGTGCTCTCCTTACACAGGGC	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT	1620
Query	1621	TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCAGCGCTTACCGATTITGGCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCAGCGCTTACCGATTITGGCC	1740
Query	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTTACTGCT	1800
Query	1801	GGCACTACCCCTCAAGACCTTGTGGCATTTGTGCCCGCAAGAGCGTGTGTGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCCTCAAGACCTTGTGGCATTTGTGCCCGCAAGAGCGTGTGTGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCAGCCCGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCAGCCCGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCTACCT	1920
Query	1921	ACAGCTGGGGTGCAATGATACGGATGTCTTCGTCTTAAACACACACAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAATGATACGGATGTCTTCGTCTTAAACACACACAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCCTGTGTCATCGAGGGGTGGGCAACACACCTTGTCTTGGCCCACTGAATTGCTTCC	2100
Sbjct	2041	CCCCCTGTGTCATCGAGGGGTGGGCAACACACCTTGTCTTGGCCCACTGAATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGATACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGATACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGTTCGAGCACAGGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGTTCGAGCACAGGCTGGAAGCGGCTGCAACTGGA	2280

Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCAGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCAGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCACCACACAGTGGCAGGTCTCTCCGTGTTCTTTACGACCCCTGCCAGCCCTTGCCA	2400
Sbjct	2341	TGTCACCACACAGTGGCAGGTCTCTCCGTGTTCTTTACGACCCCTGCCAGCCCTTGCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGCGG	2580
Query	2581	CTTGGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGCTTGTGT	2640
Sbjct	2581	CTTGGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGCTTGTGT	2640
Query	2641	CCTTCTCTGTTCTTCTGCTTTCGCTGGTATCTGAAGGGTAGTGGGTGCCGGAGCGG	2700
Sbjct	2641	CCTTCTCTGTTCTTCTGCTTTCGCTGGTATCTGAAGGGTAGTGGGTGCCGGAGCGG	2700
Query	2701	TCACGCCCTCTACGGGATGTGGCCCTCTCCTCTGCTCCTGCTGGCGTTGCCTCAGCGG	2760
Sbjct	2701	TCACGCCCTCTACGGGATGTGGCCCTCTCCTCTGCTCCTGCTGGCGTTGCCTCAGCGG	2760
Query	2761	CATACGCTGGACACGGAGGTGGCCGCGTCGTGTGGCGCGTGTCTTGTGCGGGTAA	2820
Sbjct	2761	CATACGCTGGACACGGAGGTGGCCGCGTCGTGTGGCGCGTGTCTTGTGCGGGTAA	2820
Query	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCAAGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCAAGTCC	2940
Query	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCTTGGTATTG	3000
Sbjct	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCTTGGTATTG	3000
Query	3001	ACATCACCAACTACTCTCTGGCCATCTTCGACCCCTTGGATTCTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAACTACTCTCTGGCCATCTTCGACCCCTTGGATTCTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCTACTTCTGTCGCGCTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCTACTTCTGTCGCGCTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTCGAGATC	3240
Sbjct	3181	CCATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTCGAGATC	3240
Query	3241	TGGCGTGGCTGTGGAACAGTCGTCTTCTCCGAAATGGAGACCAAGCTCATCAGTGGG	3300
Sbjct	3241	TGGCGTGGCTGTGGAACAGTCGTCTTCTCCGAAATGGAGACCAAGCTCATCAGTGGG	3300
Query	3301	GGCAGATACCGCCGCGTGGGTGACATCATCAACGGCTTGGCCGCTCTGCCCCTAGGG	3360
Sbjct	3301	GGCAGATACCGCCGCGTGGGTGACATCATCAACGGCTTGGCCGCTCTGCCCCTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCGAGCCGACGGAATGGTCTCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCGAGCCGACGGAATGGTCTCAAGGGGTGGAGGTTGCTGG	3420

Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCGCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCGCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAACGGGCGGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAACGGGCGGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCGTACCTGCGGGT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCGTACCTGCGGGT	3720
Query	3721	CCTCGGACCTTTACCTGGTACAGGACGCGCGATGTCTTCCCGTGGCGCGCGAGGTTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTACAGGACGCGCGATGTCTTCCCGTGGCGCGCGAGGTTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCCGGCCATTTCCTACTTGAAGAGCTCCCGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCCGGCCATTTCCTACTTGAAGAGCTCCCGGGG	3840
Query	3841	GTCCGCTGTGTGTGCCCGCGGGACACGCGTGGGCTATTACAGGCGCGGTGTGACACC	3900
Sbjct	3841	GTCCGCTGTGTGTGCCCGCGGGACACGCGTGGGCTATTACAGGCGCGGTGTGACACC	3900
Query	3901	GTGGAGTGGTTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGTTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCTCCACCAGCAGTCCCCAGAGCTTCCAGTGGGCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCTCTCCACCAGCAGTCCCCAGAGCTTCCAGTGGGCC	4020
Query	4021	ACCTGCATGCTCCACCGCAGCGGTAAGAGCACCAAGGTCCTGGCTGCGTACGACGCC	4080
Sbjct	4021	ACCTGCATGCTCCACCGCAGCGGTAAGAGCACCAAGGTCCTGGCTGCGTACGACGCC	4080
Query	4081	AGGGCTACAAGGTGTGTGTGCTCAACCCCTCTGTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTGTGTGCTCAACCCCTCTGTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATTACCA	4200
Query	4201	CTGGCAGCCCCATACGCTACTCCACCTACGGCAAGTTCCTTGGCCACGGCGGGTGTCTAG	4260
Sbjct	4201	CTGGCAGCCCCATACGCTACTCCACCTACGGCAAGTTCCTTGGCCACGGCGGGTGTCTAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGATCTGGGACTGTCTTGACCAAGCAGAGACTGCGGGGGCAGAGCTGGTTGTGCTCG	4380
Sbjct	4321	TGGGATCTGGGACTGTCTTGACCAAGCAGAGACTGCGGGGGCAGAGCTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGCTCACTGTGTCCCATCCTAACATCAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGCTCACTGTGTCCCATCCTAACATCAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCAGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCAGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560

Query	4561	TGCTCGCATTGGGCATCAATGCCGTGGCCCTACTACCGCGGCTCTTGACGTGTCGTATCC	4620
Sbjct	4561	TGCTCGCATTGGGCATCAATGCCGTGGCCCTACTACCGCGGCTCTTGACGTGTCGTATCC	4620
Query	4621	CGACAGCGGGCGATGTTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGG	4680
Sbjct	4621	CGACAGCGGGCGATGTTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGCGAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGCGAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCCTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCCTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTGATCCGCCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTGATCCGCCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGATGAAGTCACCTGACGCACCCAATCACCATAATCATATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGATGAAGTCACCTGACGCACCCAATCACCATAATCATATGA	5280
Query	5281	CATGATGTCGCGCCACCTGGAGGTCGTACGAGCACCCTGGGTGCTCGTGGCGGGCTCC	5340
Sbjct	5281	CATGATGTCGCGCCACCTGGAGGTCGTACGAGCACCCTGGGTGCTCGTGGCGGGCTCC	5340
Query	5341	TGGCTGCTCTGGCCCGGTATTGCCTGTCAACAGGCTGCGTGGTATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCCGGTATTGCCTGTCAACAGGCTGCGTGGTATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCGCGCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCGCGCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTTCTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTTCTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA	5700

Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCGCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCGCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCTGGTGTGGTCTGCGCAGCAATCTGCGCCGGCAGGTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCTGGTGTGGTCTGCGCAGCAATCTGCGCCGGCAGGTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Query	6121	ACCATGTTTCCCCACGCACACTACGTGCCGGAGAGCGATGCGAGCCGCCCGGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCACGCACACTACGTGCCGGAGAGCGATGCGAGCCGCCCGGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTTCACTGTAAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTTCACTGTAAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACCTCCATGCTCCGGTTCTTGCTAAGGGACATCTGGGACTGGATAATGCGAGG	6300
Sbjct	6241	AGTGTACCACCTCCATGCTCCGGTTCTTGCTAAGGGACATCTGGGACTGGATAATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Query	6361	CTTTGTGTCTTGCACGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CTTTGTGTCTTGCACGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCGCCATTAAACGCTACACCA	6540
Sbjct	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCGCCATTAAACGCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACTGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACTGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCGTGCCAGATCCCATGCCCCGAATTTTCACAGAAITGGAGC	6720
Sbjct	6661	CTGACAATCTTAAATGCCGTGCCAGATCCCATGCCCCGAATTTTCACAGAAITGGAGC	6720
Query	6721	GGGTGCGCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCCAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCCAACCGG	6840

Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGCGG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGCGG	6900
Query	6901	GGAGAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCG	7200
Query	7201	TCCTGGGCGCGCCGGACTACAACCCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCCTGGGCGCGCCGGACTACAACCCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCG	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCG	7320
Query	7321	CTCGAAAAAGCGGTACGGTGGTCTCACCGAATCAACCCATCTACTGCCTTTGGCGAGC	7380
Sbjct	7321	CTCGAAAAAGCGGTACGGTGGTCTCACCGAATCAACCCATCTACTGCCTTTGGCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGGACTCCGACGTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGGACTCCGACGTGAGTCCTATTCTT	7500
Query	7501	CCATGCCCCCTTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGTCGA	7560
Sbjct	7501	CCATGCCCCCTTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGTCGA	7560
Query	7561	CGGTGAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCGGA	7620
Sbjct	7561	CGGTGAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAATAATGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAATAATGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTCACGCGAGTGCTTGGC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTCACGCGAGTGCTTGGC	7740
Query	7741	AAAGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACAGGAGC	7800
Sbjct	7741	AAAGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACAGGAGC	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGCGAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGCGAAAAG	7920
Query	7921	ACGTCCGTGTCATGCCAGAAAGGCCGTAGCCCATCACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTGTCATGCCAGAAAGGCCGTAGCCCATCACTCCGTGTGGAAAGACCTTC	7980

Query	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTACGCCTGAGAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTCCCGGACCTGGGGG	8100
Sbjct	8041	TTACGCCTGAGAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTCCCGGACCTGGGGG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCGCGGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCGCGGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACACGAGCAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACACGAGCAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTACTCCA	8280
Sbjct	8221	CGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGTGCCCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGTGCCCGCGAGCGGCGTACTGACAA	8460
Query	8461	CTAGTGTGGTAACACCCCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTGAGCCGCGAG	8520
Sbjct	8461	CTAGTGTGGTAACACCCCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTGAGCCGCGAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAAGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAAGTACT	8640
Query	8641	CGGcccccccggggccccccaAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CGGCCCCCCCCGGGGCCCCCAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CTTCAACGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGGTCTACTACCTTACCCTGT	8760
Sbjct	8701	CTTCAACGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGGTCTACTACCTTACCCTGT	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGACAGGCTCTTAACGTGAGA	8940
Sbjct	8881	CCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGACAGGCTCTTAACGTGAGA	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCAATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCAATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGTGGCCG	9060
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGTGGCCG	9060
Query	9061	CATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCAGACTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCAGACTTGGAGACACCGGGCCCGGAGCG	9120

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTCTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTCTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCGACGCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCGACGCTCCAGGAC	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCTTCTTCTGGATAAACCGCTCAATGCCCTGGAGATTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCTTCTTCTGGATAAACCGCTCAATGCCCTGGAGATTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGGAATCCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGGAATCCTAAAC	360
Query	361	CTCAAGAAAAAACCAACGTAACCAACCGTCGCCACAGGACGTCAAGTTCCTGGGGTG	420
Sbjct	361	CTCAAGAAAAAACCAACGTAACCAACCGTCGCCACAGGACGTCAAGTTCCTGGGGTG	420
Query	421	CGCGTCAGATCGTTGGTGGAGTTTACTGTTGCCCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	CGCGTCAGATCGTTGGTGGAGTTTACTGTTGCCCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGAGCTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGAGCTCAGCCTATCCCCA	540

Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCGCGTAGGTCGCGCAATTGGGTAAGGTCATCGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCGCGTAGGTCGCGCAATTGGGTAAGGTCATCGATACCCCTTA	720
Query	721	CGTGGCGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGCG	780
Sbjct	721	CGTGGCGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCTGAACATATGCAACAG	840
Query	841	GGAACCTTCCTGGTGTGCTCTTCTCTATCTTCTTCGCGCCCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTGTGCTCTTCTCTATCTTCTTCGCGCCCTGCTCTCTTGGCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCAGCAATTCCTCGGGGCTTTACCATGTACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCAGCAATTCCTCGGGGCTTTACCATGTACCAATGATT	960
Query	961	GGCCTAACTCGAGTATTGTGTACGAGCGGCCGATGCCATCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GGCCTAACTCGAGTATTGTGTACGAGCGGCCGATGCCATCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCTTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCAACGGTGG	1080
Sbjct	1021	TCCTTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCAACGGTGG	1080
Query	1081	CCACGAGGACGCGCAAACTCCCAACACGAGCTTCGACGTCATATCGATCTGCTTGTGCG	1140
Sbjct	1081	CCACGAGGACGCGCAAACTCCCAACACGAGCTTCGACGTCATATCGATCTGCTTGTGCG	1140
Query	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACGTGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACGTGT	1320
Query	1321	CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGATCCCAAGCCATCATGGACA	1380
Sbjct	1321	CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGATCCCAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGAGTCTGGCGGGCATAGCGTATTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGAGTCTGGCGGGCATAGCGTATTCTCCATGGTGGGGA	1440
Query	1441	ACTGGCGGAAGGTCCTGGTAGTGTCTGCTGCTATTTCGCCGCGTCGACGCGGAAACCCAG	1500
Sbjct	1441	ACTGGCGGAAGGTCCTGGTAGTGTCTGCTGCTATTTCGCCGCGTCGACGCGGAAACCCAG	1500
Query	1501	TCACCGGGGGAATGCGCGCCGACCAACGGCTGGGCTTGTGGTCTCCTTACACAGGCG	1560
Sbjct	1501	TCACCGGGGGAATGCGCGCCGACCAACGGCTGGGCTTGTGGTCTCCTTACACAGGCG	1560
Query	1561	CCAAGCAGAATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
Sbjct	1561	CCAAGCAGAATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680

Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCTTACCGATTITGGCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCTTACCGATTITGGCC	1740
Query	1741	AGGGCTGGGGTCCCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCTCCAAAGACCTTGTGGCATTGTGCCCGAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCTCCAAAGACCTTGTGGCATTGTGCCCGAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACCTCCAGCCCGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCTACCT	1920
Sbjct	1861	ATTGCTTCACCTCCAGCCCGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAAACAACACAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAAACAACACAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTGTGACCTGGATGAATCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTGTGACCTGGATGAATCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTC	2100
Query	2101	GCAACATCCGGAAGCCACATACCTCTCGGTGGGCTCCGGTCCCTGGATTACACCCAGT	2160
Sbjct	2101	GCAACATCCGGAAGCCACATACCTCTCGGTGGGCTCCGGTCCCTGGATTACACCCAGT	2160
Query	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGTACCATCAATTACACATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGTACCATCAATTACACATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGTTCGAGCACAGGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGTTCGAGCACAGGCTGGAAGCGGCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGACAGGTCCGAGCTCAGCCCGTGTCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGACAGGTCCGAGCTCAGCCCGTGTCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCTTGCAGCCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCTTGCAGCCCTTGTCCA	2400
Query	2401	CGGGCTCATCCACTCCACAGAACATTGTGGACGTGCAGTACTTGTACGGGTAGGGT	2460
Sbjct	2401	CGGGCTCATCCACTCCACAGAACATTGTGGACGTGCAGTACTTGTACGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCCTGTAATACTCAATGCAGCATCCCTGGCGGGAGCAGCGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCCTGTAATACTCAATGCAGCATCCCTGGCGGGAGCAGCGTCTTGTGT	2640
Query	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGTGGCGGAGCGG	2700
Sbjct	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGTGGCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCTCTCCTCTGCTCCTGTGGCGTTGCCCTACGCGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCTCTCCTCTGCTCCTGTGGCGTTGCCCTACGCGG	2760
Query	2761	CATACGCATGGACACGAGGTGGCCGCGTCTGTGTGGCGGCGTGTGTTCTTGTGCGGTTAA	2820
Sbjct	2761	CATACGCATGGACACGAGGTGGCCGCGTCTGTGTGGCGGCGTGTGTTCTTGTGCGGTTAA	2820

Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACACGTC	2940
Sbjct	2881	AGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACACGTC	2940
Query	2941	GGGGGGGGCGCGCATGCGCTCATCTTACTCATGTGTAGTACACCCGACCTTGGTATTG	3000
Sbjct	2941	GGGGGGGGCGCGCATGCGCTCATCTTACTCATGTGTAGTACACCCGACCTTGGTATTG	3000
Query	3001	ACATCACCAAACCTACTCTTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACCTACTCTTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCTACTCTCGTGCAGTTCAGGGCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCTACTCTCGTGCAGTTCAGGGCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACAGTCTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACAGTCTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGCAGATACCGCCGCGTGCAGTGCATCATCAACGGCTTGCCTCTCTGCCCCGATAGG	3360
Sbjct	3301	GGCAGATACCGCCGCGTGCAGTGCATCATCAACGGCTTGCCTCTCTGCCCCGATAGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTGCTCGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTGCTCGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACGGGGCGGAA	3600
Sbjct	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACGGGGCGGAA	3600
Query	3601	CGAGGACCATCGCATACCCAAAGGTCCTGTATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATACCCAAAGGTCCTGTATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGTCTCTCAAGGTTCCCGCTCATTTGACACCCGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGTCTCTCAAGGTTCCCGCTCATTTGACACCCGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTCAATCCCGTGGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTCAATCCCGTGGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCGGCCCAATTCTACTTGAAGGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCGGCCCAATTCTACTTGAAGGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCTATTACGGGCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCTATTACGGGCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960

Query	3961	CCCCGGTGTTCACGGACAACCTCTCTCCACCAGCAGTGCCTCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCTCTCCACCAGCAGTGCCTCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCACCGGAGCGGTAAGAGCACCAAGGTCCTGGCTGCGTACGACAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCACCGGAGCGGTAAGAGCACCAAGGTCCTGGCTGCGTACGACAGCCC	4080
Query	4081	AGGGCTACAAGGTGTGTGGTGCTCAACCCCTCTGTGTGCTGAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTGTGGTGCTCAACCCCTCTGTGTGCTGAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Query	4201	CTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCTACT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCTACT	4320
Query	4321	TGGGCTACGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCTACGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTAACATCGAGGAGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTAACATCGAGGAGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCTTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCTTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACACGCGCGATGTTGTGCTGCTGTGACCGATGCTCTCATGACTGGCTTTACCGGGG	4680
Sbjct	4621	CGACACGCGCGATGTTGTGCTGCTGTGACCGATGCTCTCATGACTGGCTTTACCGGGG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTTACCATTTAGACAAACACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTTACCATTTAGACAAACACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCAGGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCAGGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTTACGGGCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTTACGGGCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCTTACCTGG	5100

Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGGCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGGCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAAGATGAAGTACACCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAAGATGAAGTACACCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTGCTCAGCAGCACCTGGGTGCTCGTTGGCGGGCTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTGCTCAGCAGCACCTGGGTGCTCGTTGGCGGGCTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTGTCCGGGAAGCCGCGCAATTATACCTGACAGGGAGGTTCTCTACAGAGAGTTCGATG	5460
Sbjct	5401	TCTGTCCGGGAAGCCGCGCAATTATACCTGACAGGGAGGTTCTCTACAGAGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTATCA	5580
Query	5581	CCCGTGTCTCCAGACCAACTGGCAGAACTCGAGGTCCTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCGTGTCTCCAGACCAACTGGCAGAACTCGAGGTCCTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTTGGGGTGTGGCCTAGCTGGCGCCGCCATCGGCAGCGTGGATGGGGGAAGG	5880
Sbjct	5821	CTGCCCTTTGGGGTGTGGCCTAGCTGGCGCCGCCATCGGCAGCGTGGATGGGGGAAGG	5880
Query	5881	TCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCCACCAGGAGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCCACCAGGAGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCTTGGAGCCCTTGTAGTGGGTGGTGTGGCTGCGCAGCAATACGCGCCGGCAGTTG	6060
Sbjct	6001	TCTCGCTTGGAGCCCTTGTAGTGGGTGGTGTGGCTGCGCAGCAATACGCGCCGGCAGTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGA	6120
Query	6121	ACCATGTTTCCCCACGCACTACGTGCCGAGAGGAGTGCAGCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCACGCACTACGTGCCGAGAGGAGTGCAGCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240

Query	6241	AGTGTACCACCTCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACCTCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGGCTGGGATTTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGGCTGGGATTTC	6360
Query	6361	CCTTTGTGTCTCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCA	6540
Sbjct	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCA	6540
Query	6541	CGGGCCCTGTACTCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCTGTACTCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAAATGGAGC	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAAATGGAGC	6720
Query	6721	GGGTGCGCCTACACAGGTTTGGCGCCCTTGCAAGCCCTTGTCTGGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGGCGCCCTTGCAAGCCCTTGTCTGGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGTTGGGTCGCAATTACCTTGCAGAGCCGCAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGTTGGGTCGCAATTACCTTGCAGAGCCGCAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CGCTCCATCTCTCAAGGCAACTTGCACCGCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CGCTCCATCTCTCAAGGCAACTTGCACCGCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCCTCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCCTCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCCCGGGCCCTGCCCG	7200
Query	7201	CTGGGCGCGGCGGACTACAACCCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	CTGGGCGCGGCGGACTACAACCCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCGC	7320
Query	7321	CTCGGAAAAAGCTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAGC	7380

Query	7381	TTGCCACAAAAAGTTTGGCAGCTCCAACTTCGGGCAATACGGGCGCAATACGACAA	7440
Sbjct	7381	TTGCCACAAAAAGTTTGGCAGCTCCTCAACTTCGGGCAATACGGGCGCAATACGACAA	7440
Query	7441	CATCCTCTGAGCCGCGCCCTTCTGGGTGCCCCGACATCCGACGTTAGTCTCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCGCGCCCTTCTGGGTGCCCCCGACATCCGACGTTAGTCTCTATTCTT	7500
Query	7501	CCATGCCCCGGGTTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCAGCGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCGCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCAGCGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTTGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTTGA	7620
Query	7621	CAGGCGCATCGTCAACCCGTGCGTTCGCGGAAGACAAAACGCCATCAACGCATGA	7680
Sbjct	7621	CAGGCGCATCGTCAACCCGTGCGTTCGCGGAAGACAAAACGCCATCAACGCATGA	7680
Query	7681	GCAACTCGTGTCTACGCCATCACAATCTGGTGTATTCCACCACITTCACGAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTGTCTACGCCATCACAATCTGGTGTATTCCACCACITTCACGAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAAGAGTCACATTGACAGACTGCAAGTTCTGGACGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAAGAGTCACATTGACAGACTGCAAGTTCTGGACGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCTGACGCCCCACATTCAGCCAAATCCAAGTTTGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCTGACGCCCCACATTCAGCCAAATCCAAGTTTGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAAGACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAAGACGAGGTTTTCTGCG	8040
Query	8041	TTACGCTGAGAAAGGGGGTCGTAAAGCAGCTCGTCTCATCGTGTCCCCGACCTGGGCG	8100
Sbjct	8041	TTACGCTGAGAAAGGGGGTCGTAAAGCAGCTCGTCTCATCGTGTCCCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAAGTGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAAGTGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACACGGGGTTGAATTCTCTGTCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACACGGGGTTGAATTCTCTGTCAAG	8220
Query	8221	CGTGGAAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTGACTCCA	8280
Sbjct	8221	CGTGGAAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGGCACATCCGTACGAGGAGGCAATTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGGCACATCCGTACGAGGAGGCAATTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCAGCGGCTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCAGCGGCTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCTCACTTGCTATCATCAAGGCCCGGGACGCTGTGACGCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCTCACTTGCTATCATCAAGGCCCGGGACGCTGTGACGCGCAG	8520

Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAAGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAAGTACT	8640
Query	8641	CCGCCCCCCCCCGGGGACCCCCACAACAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCCGGGGACCCCCACAACAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTGAGTCGCCCCACGACGGCGCTGGAAGAGGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTGAGTCGCCCCACGACGGCGCTGGAAGAGGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCCTACACCCCCCTCGCGAGAGCGCGCTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCCTACACCCCCCTCGCGAGAGCGCGCTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CTTGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACATGATGA	8880
Sbjct	8821	CTTGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACATGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGTGAGA	8940
Sbjct	8881	CCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGTGAGA	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGAICTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Query	9061	CATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAAGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAAGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Query	9181	ACTGGGCAGTAAAGACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCGCGCTGGACT	9240
Sbjct	9181	ACTGGGCAGTAAAGACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCGCGCTGGACT	9240
Query	9241	TGTCGGTTGGTTACGGCTGGCTACAGCGGGGAGACATTATACAGCGGTGTCTCATG	9300
Sbjct	9241	TGTCGGTTGGTTACGGCTGGCTACAGCGGGGAGACATTATACAGCGGTGTCTCATG	9300
Query	9301	CCCGGCCCGCTGGTTCTGGTTTTGGCTACTCTGCTCGCTGACGGGGTAGGCATCTACC	9360
Sbjct	9301	CCCGGCCCGCTGGTTCTGGTTTTGGCTACTCTGCTCGCTGACGGGGTAGGCATCTACC	9360
Query	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTGTTT	9420
Sbjct	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTGTTT	9420
Query	9421	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9480
Sbjct	9421	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9480
Query	9481	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9540
Sbjct	9481	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9540
Query	9541	AGGTCGGTAGCGCATGACTGCAGAGAGTGTGATCTGGCCTCTCTGCAGATCATGT	9599
Sbjct	9541	AGGTCGGTAGCGCATGACTGCAGAGAGTGTGATCTGGCCTCTCTGCAGATCATGT	9599

>gb|EA110745.1| Sequence 2 from patent US 7201911
Length=9599

Score = 1.773e+04 bits (9599), Expect = 0.0
 Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
 Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCCTGTGAGGAAGTACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCCTGTGAGGAAGTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATGCCAG	180
Query	181	GACGACCGGGTCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGTGTCCCGGGAGGCTCTGTAGACCGTGACCATGAGCAGCAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGTGTCCCGGGAGGCTCTGTAGACCGTGACCATGAGCAGCAATCCTAAAC	360
Query	361	CTCAAGAAAAACCAACGTAACACCAACCGTCGCCCCACAGGACGTCAAGTCCCGGGTG	420
Sbjct	361	CTCAAGAAAAACCAACGTAACACCAACCGTCGCCCCACAGGACGTCAAGTCCCGGGTG	420
Query	421	CGGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	CGGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAGAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAGAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTAGCCTATCCCCA	540
Query	541	AGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCCCTATG	600
Sbjct	541	AGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCCCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGTTCGCGCAATTGGGTAAGGTCATCGATAACCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGTTCGCGCAATTGGGTAAGGTCATCGATAACCTTA	720
Query	721	CGTGGCGGCTTCGCGGACCTCATGGGGTACATACCGCTCGTGGCGCCCCCTCTTGAGAGGG	780
Sbjct	721	CGTGGCGGCTTCGCGGACCTCATGGGGTACATACCGCTCGTGGCGCCCCCTCTTGAGAGGG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACTTCTCTGGTGTGCTCTTCTCTATCTTCTCTGCGGCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACTTCTCTGGTGTGCTCTTCTCTATCTTCTCTGCGGCTGCTCTCTTGGCTGACTG	900
Query	901	TGCGCGCTTCAGCTACCAAGTGCACAATTCTCGGGGCTTTACCATGTACCAATGATT	960
Sbjct	901	TGCGCGCTTCAGCTACCAAGTGCACAATTCTCGGGGCTTTACCATGTACCAATGATT	960
Query	961	GCCCTAATCTGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAATCTGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCCTTCGCGAGGGTAACGCTTCGAGGTGTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCCTTCGCGAGGGTAACGCTTCGAGGTGTGGGTGGCGGTGACCCCCACGGTGG	1080

Query	1081	CCACCAGGACGGCAAACCTCCCAACGACGCTTCGACGTCATATCGATTCGTTTGTG	1140
Sbjct	1081	CCACCAGGACGGCAAACCTCCCAACGACGCTTCGACGTCATATCGATTCGTTTGTG	1140
Query	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTGTG	1200
Sbjct	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTGTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCTTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380
Sbjct	1321	CCCTTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTACTGGGAGTCTCTGGCGGGCATAGCGTATTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTACTGGGAGTCTCTGGCGGGCATAGCGTATTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTATTTCGCGCGCTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTATTTCGCGCGCTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGAAATGCCGCGCCGACACCGGCTGGGCTTGTGTGCTCTTACACAGGCG	1560
Sbjct	1501	TCACCGGGGAAATGCCGCGCCGACACCGGCTGGGCTTGTGTGCTCTTACACAGGCG	1560
Query	1561	CAAAGCAGAACATCCAACTGATCAACACCAACGGGAGTTGGCACATCAATAGCAGCGCT	1620
Sbjct	1561	CAAAGCAGAACATCCAACTGATCAACACCAACGGGAGTTGGCACATCAATAGCAGCGCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGTGCCGACGCTTACCGATTTTGGCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGTGCCGACGCTTACCGATTTTGGCC	1740
Query	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCAGTACCTCCAAAGACCTTGTGGCATTGTGCCCGAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCAGTACCTCCAAAGACCTTGTGGCATTGTGCCCGAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCTTAACAACACAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCTTAACAACACAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAATCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAATCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220

Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGCCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGCCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCAGGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCAGGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGCTTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGCTTTGTGT	2640
Query	2641	CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGTAAGTGGGTGCCCCGAGCGG	2700
Sbjct	2641	CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGTAAGTGGGTGCCCCGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCTGCTCTCTGCTGCGGCTTACGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCTGCTCTCTGCTGCGGCTTACGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGCGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGCGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCGCCCTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCGCCCTCAACGTCC	2940
Query	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCGACCCCTGGTATTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTGTAGTACACCGACCCCTGGTATTG	3000
Query	3001	ACATACCAAATACTCTCGTGGCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAATACTCTCGTGGCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TAAAGTCCCTACTTCTGTCGCGTTCAAGGCCCTTCTCCGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TAAAGTCCCTACTTCTGTCGCGTTCAAGGCCCTTCTCCGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTACCCCTCTTCGAGACTGGGCGCACACGGCCTGCAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTACCCCTCTTCGAGACTGGGCGCACACGGCCTGCAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCCTTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCCTTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCTGCGGTGACATCATCAACGGCTTGGCCGCTCTGCCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCTGCGGTGACATCATCAACGGCTTGGCCGCTCTGCCCCGTAGGG	3360

Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTGTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTGTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTTAGGGTGTATAATCACGAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTTAGGGTGTATAATCACGAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTTCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTTCAGATCGTGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGCGCGAA	3600
Sbjct	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGCGCGAA	3600
Query	3601	CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGGTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGGT	3720
Sbjct	3661	ACCTTGTGGGGTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGGT	3720
Query	3721	CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTCAATCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTCAATCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTCTACTTGAAGGCTCTCTCGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTCTACTTGAAGGCTCTCTCGGGG	3840
Query	3841	GTCCCGTGTGTGCCCCCGGGACACGCGTGGGCCATTACAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCCGTGTGTGCCCCCGGGACACGCGTGGGCCATTACAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGACAAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGACAAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCTCTCCACCAGCAGTCCCCAGAGCTTCCAGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCTCTCCACCAGCAGTCCCCAGAGCTTCCAGTGGCCC	4020
Query	4021	ACCTGCATGCTCCACCGGCAGCGGTAAGAGACCAAGGTCCCGGCTGCGTACGACGCC	4080
Sbjct	4021	ACCTGCATGCTCCACCGGCAGCGGTAAGAGACCAAGGTCCCGGCTGCGTACGACGCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Query	4201	CTGGCAGCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTGTGACGAGTGCACCTCCACGGATGCCATCCTACT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTGTGACGAGTGCACCTCCACGGATGCCATCCTACT	4320
Query	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCAGACTGGTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCAGACTGGTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500

Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGTCGCGATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCC	4620
Sbjct	4561	TGTCGCGATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCC	4620
Query	4621	CGACCAGCGCGATGTTGTCTGTCGTGACCGATGCTCTCATGACTGGCTTTACCGGGC	4680
Sbjct	4621	CGACCAGCGCGATGTTGTCTGTCGTGACCGATGCTCTCATGACTGGCTTTACCGGGC	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCCTACCTTTACCATTTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCCTACCTTTACCATTTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	CGCCGGGCGAGGACTGCGAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGGAGC	4860
Sbjct	4801	CGCCGGGCGAGGACTGCGAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCAGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCAGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAAGTTTCCCTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAAGTTTCCCTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTGTGATCCGCCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTGTGATCCGCCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTACAGAAATGAAGTACACCTGACGCACCAATCACCATAATACATATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTACAGAAATGAAGTACACCTGACGCACCAATCACCATAATACATATGA	5280
Query	5281	CATGCATGTGCGGCCGACCTGGAGGTGCTCACGAGCACTGGGTGCTCGTTGGCGGGCTCC	5340
Sbjct	5281	CATGCATGTGCGGCCGACCTGGAGGTGCTCACGAGCACTGGGTGCTCGTTGGCGGGCTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCCTGTCAACAGGCTGCGTGGTCTATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCCTGTCAACAGGCTGCGTGGTCTATAGTGGGCAGGATCG	5400
Query	5401	TCCTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTTCGATG	5460
Sbjct	5401	TCCTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCTGCAGACCGGTCCCGCCATCGAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCTGCAGACCGGTCCCGCCATCGAGAGGTTATCA	5580
Query	5581	CCCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGCTCTTTTGGGCGAAGCAGATGTGGA	5640
Sbjct	5581	CCCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGCTCTTTTGGGCGAAGCAGATGTGGA	5640

Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCTCTTCAACATATTgggggggTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTTTGGGTGCTGGCCTAGCTGGCGCCGCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTTTGGGTGCTGGCCTAGCTGGCGCCGCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCATCC	6000
Query	6001	TCTCGCTGGAGCCCTTGTAGTTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTG	6060
Sbjct	6001	TCTCGCTGGAGCCCTTGTAGTTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCCCTCCCGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCCCTCCCGGGGA	6120
Query	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGACGCCGCCCGCTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGACGCCGCCCGCTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGCGCACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGCGCACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATAATGCGAGG	6300
Sbjct	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATAATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Query	6361	CTTTGTGTCTGCCAGCGGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CTTTGTGTCTGCCAGCGGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCA	6540
Sbjct	6481	TCGGTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCA	6540
Query	6541	CGGGCCCTGTACTCCCTTCTGCGCCGAACATAAGTTTCGGCGTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCTGTACTCCCTTCTGCGCCGAACATAAGTTTCGGCGTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCTACACAGGTTTGCGCCCTTGAAGCCCTTGTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCTACACAGGTTTGCGCCCTTGAAGCCCTTGTGCGGGAGGAGGTATCAT	6780

Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCGAACCCG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCGAACCCG	6840
Query	6841	ACGTAGCCGTGTTGACGTCATGCTACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCATGCTACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGAATCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGAATCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCCTGCGGAAGTCTCGGAGATTGCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCCTGCGGAAGTCTCGGAGATTGCCCGGGCCCTGCCCG	7200
Query	7201	CTGTGGCGCGGCCGGACTACAACCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	CTGTGGCGCGGCCGGACTACAACCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACTTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCG	7320
Sbjct	7261	AACCACTTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCG	7320
Query	7321	CTCGAAAAAAGCGTACGGTGGTCTCACCAGATCAACCCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGAAAAAAGCGTACGGTGGTCTCACCAGATCAACCCCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTGTGGCAGCTCCTCAACTTCCGGCATTACGGGCACAAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTGTGGCAGCTCCTCAACTTCCGGCATTACGGGCACAAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGccccccGACTCCGACGTTGAGTCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCTATTCTT	7500
Query	7501	CAATGccccccTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAATGTCGA	7560
Sbjct	7501	CAATGCCCCCTTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAATGTCGA	7560
Query	7561	CGGTAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCGGA	7620
Sbjct	7561	CGGTAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAAATGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAAATGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCAAACTCTGGTGATTCCACCACCTCAGCGAGTGGTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCAAACTCTGGTGATTCCACCACCTCAGCGAGTGGTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACAGGAGC	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACAGGAGC	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGACGCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGACGCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920

Query	7921	ACGTCGGTGTGCCATGCCAGAAAGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTC	7980
Sbjct	7921	ACGTCGGTGTGCCATGCCAGAAAGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAAGAACGAGGTTTCTGGG	8040
Sbjct	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAAGAACGAGGTTTCTGGG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCGTAAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGAATCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGAATCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAGAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAGAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGAGGTGCCCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGAGGTGCCCGCGAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAAACACCTCACTTGTCTACATCAAGGCCCGGGGAGCCTGTGAGCGCGAG	8520
Sbjct	8461	CTAGCTGTGGTAAACACCTCACTTGTCTACATCAAGGCCCGGGGAGCCTGTGAGCGCGAG	8520
Query	8521	GGCTCCAGGACTGCACCAATGCTCGTGTGTGGCGAGCACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCAATGCTCGTGTGTGGCGAGCACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACCGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACCGAGGCTATGACCAGGTACT	8640
Query	8641	CGccccccccggggagccccacaaccagaatacagacttggagcttataacatcatgct	8700
Sbjct	8641	CGccccccccggggagccccacaaccagaatacagacttggagcttataacatcatgct	8700
Query	8701	CCTCCAACGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CTTGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CTTGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCTCATAGCCAGGATCAGCTTGAACAGGCTCTTAACGTGTGAGA	8940
Sbjct	8881	CCCATTTCTTTAGCGTCTCATAGCCAGGATCAGCTTGAACAGGCTCTTAACGTGTGAGA	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAGACTCC	9000
Query	9001	ATGGCCTCAGCGATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGTGGCCG	9060
Sbjct	9001	ATGGCCTCAGCGATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGTGGCCG	9060

Query	1	GCCAGCCCCCTGATGGGGGGCAGACATCCACCATGAATCACTCCCCTGTGAGGAACACTGTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGGCAGACATCCACCATGAATCACTCCCCTGTGAGGAACACTGTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGGCATGGCGTTAGTATGAGTGTCTGTGCAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGGCATGGCGTTAGTATGAGTGTCTGTGCAGCCTCCAGGA	120
Query	121	ccccrTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCCTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGGCTGCCCC	240
Sbjct	181	GACGACCGGGTCCCTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGGCTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTCTCGCAAAGGCCCTTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTCTCGCAAAGGCCCTTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCTAGACCGTGACCATGAGCAGAACTCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCTAGACCGTGACCATGAGCAGAACTCTAAAC	360
Query	361	CTCAAGAAAAACCAACGTAACACCAACCGTGCGCCACAGACGTCAAGTCCCGGGTG	420
Sbjct	361	CTCAAGAAAAACCAACGTAACACCAACCGTGCGCCACAGACGTCAAGTCCCGGGTG	420
Query	421	GCGGTGAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTGAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480

Query	481	GC	GC	GAC	GAG	GAG	AA	GACT	TCC	GAG	CGG	TC	GCA	ACCT	TC	GAG	TAG	ACG	T	CAG	CT	A	TCC	CCA	540		
Sbjct	481	GC	GC	GAC	GAG	GAG	AA	GACT	TCC	GAG	CGG	TC	GCA	ACCT	TC	GAG	TAG	ACG	T	CAG	CT	A	TCC	CCA	540		
Query	541	AG	GC	ACG	TC	CG	CC	GAG	GGC	AGG	AC	CT	TGG	GC	CC	CT	TAT	G							600		
Sbjct	541	AG	GC	ACG	TC	CG	CC	GAG	GGC	AGG	AC	CT	TGG	GC	CC	CT	TAT	G							600		
Query	601	GC	AA	TG	AGG	GT	TG	CGG	T	GGG	CGG	AT	TG	GCT	CCT	GT	C	TCC	CG	T	GGC	T	C	TG	G	660	
Sbjct	601	GC	AA	TG	AGG	GT	TG	CGG	T	GGG	CGG	AT	TG	GCT	CCT	GT	C	TCC	CG	T	GGC	T	C	TG	G	660	
Query	661	GGG	G	CC	C	C	C	A	G	A	C	C	C	C	G	C	T	A	G	G	T	C	G	C	A	A	720
Sbjct	661	GGG	G	CC	C	C	C	A	G	A	C	C	C	C	G	C	T	A	G	G	T	C	G	C	A	A	720
Query	721	CT	G	T	G	CGG	CT	T	C	G	C	G	AC	CT	C	A	T	A	C	G	G	T	A	C	A	780	
Sbjct	721	CT	G	T	G	CGG	CT	T	C	G	C	G	AC	CT	C	A	T	A	C	G	G	T	A	C	A	780	
Query	781	CT	G	C	A	G	G	G	C	C	T	T	G	G	C	A	T	A	G	G	C	T	T	C	G	A	840
Sbjct	781	CT	G	C	A	G	G	G	C	C	T	T	G	G	C	A	T	A	G	G	C	T	T	C	G	A	840
Query	841	GG	A	A	C	T	T	C	T	G	G	T	T	G	C	T	T	T	C	T	A	T	C	T	T	900	
Sbjct	841	GG	A	A	C	T	T	C	T	G	G	T	T	G	C	T	T	T	C	T	A	T	C	T	T	900	
Query	901	TG	CC	CG	C	T	C	A	G	C	T	A	C	A	A	G	T	C	C	T	C	G	G	G	C	960	
Sbjct	901	TG	CC	CG	C	T	C	A	G	C	T	A	C	A	A	G	T	C	C	T	C	G	G	G	C	960	
Query	961	GC	CC	T	A	C	T	C	G	A	T	T	T	G	T	A	C	A	G	G	C	G	C	G	A	1020	
Sbjct	961	GC	CC	T	A	C	T	C	G	A	T	T	T	G	T	A	C	A	G	G	C	G	C	G	A	1020	
Query	1021	T	C	C	T	T	G	C	T	T	C	G	C	G	A	G	G	T	A	A	C	C	T	C	G	1080	
Sbjct	1021	T	C	C	T	T	G	C	T	T	C	G	C	G	A	G	G	T	A	A	C	C	T	C	G	1080	
Query	1081	CC	AC	C	A	G	G	A	C	G	G	AA	CT	CC	C	A	CA	AC	G	C	A	G	T	T	C	1140	
Sbjct	1081	CC	AC	C	A	G	G	A	C	G	G	AA	CT	CC	C	A	CA	AC	G	C	A	G	T	T	C	1140	
Query	1141	GG	A	G	C	CC	AC	CC	CT	C	T	G	C	T	C	G	CC	C	T	C	A	G	T	G	G	1200	
Sbjct	1141	GG	A	G	C	CC	AC	CC	CT	C	T	G	C	T	C	G	CC	C	T	C	A	G	T	G	G	1200	
Query	1201	T	T	G	G	T	C	A	A	C	T	T	C	T	C	T	C	C	A	G	G	C	C	A	C	1260	
Sbjct	1201	T	T	G	G	T	C	A	A	C	T	T	C	T	C	T	C	C	A	G	G	C	C	A	C	1260	
Query	1261	CT	AT	CT	A	T	CC	CG	GC	A	T	A	T	A	C	CG	GT	C	A	T	CG	C	A	T	GG	1320	
Sbjct	1261	CT	AT	CT	A	T	CC	CG	GC	A	T	A	T	A	C	CG	GT	C	A	T	CG	C	A	T	GG	1320	
Query	1321	CC	CC	T	A	C	G	G	C	A	G	CG	T	T	G	G	T	A	G	C	T	C	A	G	T	1380	
Sbjct	1321	CC	CC	T	A	C	G	G	C	A	G	CG	T	T	G	G	T	A	G	C	T	C	A	G	T	1380	
Query	1381	TG	AT	CG	CT	GG	T	G	C	T	C	A	C	T	GGG	AG	T	C	T	G	G	C	G	G	A	1440	
Sbjct	1381	TG	AT	CG	CT	GG	T	G	C	T	C	A	C	T	GGG	AG	T	C	T	G	G	C	G	G	A	1440	
Query	1441	AC	T	G	G	G	C	G	A	G	G	T	C	T	G	G	T	A	G	T	G	C	T	G	C	1500	
Sbjct	1441	AC	T	G	G	G	C	G	A	G	G	T	C	T	G	G	T	A	G	T	G	C	T	G	C	1500	
Query	1501	TC	AC	C	G	G	G	G	A	A	T	G	C	C	G	C	G	C	A	C	C	A	C	G	G	1560	
Sbjct	1501	TC	AC	C	G	G	G	G	A	A	T	G	C	C	G	C	G	C	A	C	C	A	C	G	G	1560	
Query	1561	CC	AA	G	C	AG	AA	CT	CC	AA	CT	G	A	T	CA	AC	CA	AC	CA	CG	C	A	G	T	1620		
Sbjct	1561	CC	AA	G	C	AG	AA	CT	CC	AA	CT	G	A	T	CA	AC	CA	AC	CA	CG	C	A	G	T	1620		

Query	1621	TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCAGCCTTACCAGATTTTGCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCAGCCTTACCAGATTTTGCC	1740
Query	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCCCTCAAGACCTTGTGGCATTTGTGCCCGAAAGAGCGTGTGTGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCCTCAAGACCTTGTGGCATTTGTGCCCGAAAGAGCGTGTGTGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACGACAGGTGGGGCGCGCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACGACAGGTGGGGCGCGCTACCT	1920
Query	1921	ACAGCTGGGGTGCAATGATACGGATGTCTTCGTCCTTAACAACACAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAATGATACGGATGTCTTCGTCCTTAACAACACAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCACTGATTGCTTCC	2100
Query	2101	GCAAACTCCGGAAGCCACATACCTCTCGGTGCGGCTCCGTCCTGGATTACACCAGGT	2160
Sbjct	2101	GCAAACTCCGGAAGCCACATACCTCTCGGTGCGGCTCCGTCCTGGATTACACCAGGT	2160
Query	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGTACCATCAATTACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGTACCATCAATTACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGCTGGAAGCGGCTGCAACTGGA	2280
Query	2281	CGCGGGCGGAACGCTGTGATCTGGAAGACAGGACAGGTCCGAGCTCAGCCGTTGCTGC	2340
Sbjct	2281	CGCGGGCGGAACGCTGTGATCTGGAAGACAGGACAGGTCCGAGCTCAGCCGTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCTCTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCTCTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCTCATCCACCTCCACAGAACATTGTGGAGCTGCAGTACTTGTACGGGTAGGGT	2460
Sbjct	2401	CCGGCTCATCCACCTCCACAGAACATTGTGGAGCTGCAGTACTTGTACGGGTAGGGT	2460
Query	2461	CAAGCATCGGCTCCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCTTG	2520
Sbjct	2461	CAAGCATCGGCTCCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCTGCTTGTGGATGATGTACTACATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCTGCTTGTGGATGATGTACTACATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCCTCGTAATACTCAATGCAGCATCCCTGGCGGGACGACGGCTTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCCTCGTAATACTCAATGCAGCATCCCTGGCGGGACGACGGCTTTGTGT	2640
Query	2641	CCTTCTCTGTTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGAGCGG	2700
Sbjct	2641	CCTTCTCTGTTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCTCTCTCTCTGCTCTGCTGGCGTTGCCCTCAGCGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCTCTCTCTCTGCTCTGCTGGCGTTGCCCTCAGCGG	2760

Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGCGCTTGTCTTGTGCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGTGGCGCGCTTGTCTTGTGCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGCGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGCGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCACTCAACGTC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCACTCAACGTC	2940
Query	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTAGTACACCGACCCCTGGTATTTC	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTAGTACACCGACCCCTGGTATTTC	3000
Query	3001	ACATACCAAACCTACTCTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTC	3060
Sbjct	3001	ACATACCAAACCTACTCTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTC	3060
Query	3061	TTAAAGTCCCTACTTCGTGCGCGTTCAAGGCCCTTCGCCGATTCGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCTACTTCGTGCGCGTTCAAGGCCCTTCGCCGATTCGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAGATC	3240
Query	3241	TGGCGTGGCTGTGGAAACAGTCGTCTTCTCCGAAATGGAGACCAAGTCATCACTGGG	3300
Sbjct	3241	TGGCGTGGCTGTGGAAACAGTCGTCTTCTCCGAAATGGAGACCAAGTCATCACTGGG	3300
Query	3301	GGGCGAGATACGCCGCGTGGGTGACATCATCAACGGCTTGCCTGCTGCGCCGTAGGG	3360
Sbjct	3301	GGGCGAGATACGCCGCGTGGGTGACATCATCAACGGCTTGCCTGCTGCGCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCCAAAGGGGTGGAGGTGTCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCCAAAGGGGTGGAGGTGTCTGG	3420
Query	3421	CGCCATCAGCGCGTACGCCAGCAGACGAGAGGCCCTCTTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCATCAGCGCGTACGCCAGCAGACGAGAGGCCCTCTTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTTCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTTCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACAGGGGCGGGAA	3600
Sbjct	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACAGGGGCGGGAA	3600
Query	3601	CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCCGTCAATTGACACCTGTACCTGGCGGT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCCGTCAATTGACACCTGTACCTGGCGGT	3720
Query	3721	CCTCGGACCTTTACTTGGTACGAGGACGCGGATGTCAITCCCGTGGCGCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACTTGGTACGAGGACGCGGATGTCAITCCCGTGGCGCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCGGCCCAATTCTACTTGAAGGCTCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCGGCCCAATTCTACTTGAAGGCTCTCGGGGG	3840
Query	3841	GTCCGCTGTGTGTGCCCGCGGACACGCCGTGGGCTATTAGGGCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTGTGTGCCCGCGGACACGCCGTGGGCTATTAGGGCGCGGTGTGCACCC	3900

Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCACCGGCAGCGGTAAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCC	4080
Sbjct	4021	ACCTGCATGCTCCACCGGCAGCGGTAAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACGTGCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACGTGCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CACTGCTACCCCTCCGGGCTCCGTCACGTGTGTCCTACCTAATCATCAGGAGGTGTCT	4440
Sbjct	4381	CACTGCTACCCCTCCGGGCTCCGTCACGTGTGTCCTACCTAATCATCAGGAGGTGTCT	4440
Query	4441	TGTCCACCACCAGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCAGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGATTGGGCATCAATGCCGTGGCCTACTACCGCGTCTTGACGTGCTGTGATCC	4620
Sbjct	4561	TGGTCGATTGGGCATCAATGCCGTGGCCTACTACCGCGTCTTGACGTGCTGTGATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCCTACCTTTACCATTTAGACAAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCCTACCTTTACCATTTAGACAAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	CGCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCAGGGGAGC	4860
Sbjct	4801	CGCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCAGGGGAGC	4860
Query	4861	GCCTCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCTCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCAGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCAGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTTACGGGCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTTACGGGCTCACTC	5040

Query	5041	ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAAGATGAAGTCACCTGACGCACCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAAGATGAAGTCACCTGACGCACCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTGCGGCCGACCTGGAGTCTGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTGCGGCCGACCTGGAGTCTGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCGGGAAGCCGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCGGGAAGCCGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCATGCAGAGGTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCATGCAGAGGTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCGCTA	5820
Query	5821	CTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGACAGGTATGGCGCGGGCGTGGCGGGAGCTCTTGAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGACAGGTATGGCGCGGGCGTGGCGGGAGCTCTTGAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGTCGCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGTCGCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATCTGCGCCGGCAGCTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATCTGCGCCGGCAGCTTG	6060
Query	6061	GCCCGGGCAGAGGGGAGTGAATGGAATGAACCGGCTAATAGCTTCGCCCTCCCGGGGA	6120
Sbjct	6061	GCCCGGGCAGAGGGGAGTGAATGGAATGAACCGGCTAATAGCTTCGCCCTCCCGGGGA	6120
Query	6121	ACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGAGCCGCCCGCGTCACTGCCA	6180

Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTAACCACTCCATGCTCCGGTTCTTGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTAACCACTCCATGCTCCGGTTCTTGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Query	6361	CCTTTGTGTCTCTGCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTCTGCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTACGCCCTACACCA	6540
Sbjct	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTACGCCCTACACCA	6540
Query	6541	CGGGCCCCCTGTACTCCCTTCTCGCGCGAATATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCCTGTACTCCCTTCTCGCGCGAATATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTCCAGATCCCATCGCCCGAATTTTCACAGAATTGGAGC	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTCCAGATCCCATCGCCCGAATTTTCACAGAATTGGAGC	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCTTGAAGCCCTTGTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGCGCCCTTGAAGCCCTTGTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGTTGGGGTCGCAATTACCTTGCAGAGCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGTTGGGGTCGCAATTACCTTGCAGAGCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCAACGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCAACGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCGCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCGCG	7200
Query	7201	CTGCGCGCGCGCGGACTACAACCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	CTGCGCGCGCGCGGACTACAACCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCTCCGC	7320

Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCGGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCGGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGGCCCGCCCTTCTGGCTG ccccccc GACTCCGACGTTGAGTCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGGCCCGCCCTTCTGGCTGCCCGCCGACTCCGACGTTGAGTCTATTCTT	7500
Query	7501	CCATG ccccccc TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCTGA	7560
Sbjct	7501	CCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCTGA	7560
Query	7561	CGGTAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCTGA	7620
Sbjct	7561	CGGTAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCTGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAAATGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAAATGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAACTCGGTGATTCCACCACCTTCACGCACTGCTTGGC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAACTCGGTGATTCCACCACCTTCACGCACTGCTTGGC	7740
Query	7741	AAAGGCAGAGAAGTTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAGC	7800
Sbjct	7741	AAAGGCAGAGAAGTTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAGC	7800
Query	7801	TGCTCAAGGAGGTTCAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTTCAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGACGCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGACGCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGCCGTAGCCACATCAACTCCGTGTGGAAGAGCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGCCGTAGCCACATCAACTCCGTGTGGAAGAGCTTC	7980
Query	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGTTTTCTGCG	8040
Query	8041	TTACGCCTGAGAGGGGGGTCGTAAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGGC	8100
Sbjct	8041	TTACGCCTGAGAGGGGGGTCGTAAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGGC	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCGAGCAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCGAGCAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTACTCCA	8280
Sbjct	8221	CGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCAGCGGCTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCAGCGGCTACTGACAA	8460

Query	8461	CTAGCTGTGGTAAACACCCCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTGCGAGCCGCGAG	8520
Sbjct	8461	CTAGCTGTGGTAAACACCCCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTGCGAGCCGCGAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGATG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGATG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGCCCCCCCCGGGGGACCCCAACCAAGATAACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCGGGGGACCCCAACCAAGATAACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTGAGTCGCCCACGACGCGCTGGAAGAGGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTGAGTCGCCCACGACGCGCTGGAAGAGGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCTTACAAACCCCTTCGCGAGAGCCGCTGGGAGACAGCAAGACACTCCAGTCAATT	8820
Sbjct	8761	ACCTTACAAACCCCTTCGCGAGAGCCGCTGGGAGACAGCAAGACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCCTTAGCGTCCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACCTGTGAGA	8940
Sbjct	8881	CCCATTTCCTTAGCGTCCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACCTGTGAGA	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAATCAATAGGTTGGCG	9060
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAATCAATAGGTTGGCG	9060
Query	9061	CATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGACAGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGACAGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Query	9181	ACTGGGCGAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGTGGCCGGCTGGACT	9240
Sbjct	9181	ACTGGGCGAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGTGGCCGGCTGGACT	9240
Query	9241	TGTCCGGTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATACAGCGGTGTCTCATG	9300
Sbjct	9241	TGTCCGGTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATACAGCGGTGTCTCATG	9300
Query	9301	CCCGCCCCCGCTGGTTCTGGTTTTGCTTACTCTGCTCGCTGACGGGTAGGCATCTACC	9360
Sbjct	9301	CCCGCCCCCGCTGGTTCTGGTTTTGCTTACTCTGCTCGCTGACGGGTAGGCATCTACC	9360
Query	9361	TCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCTCTTAAGCCATTTCCTGTTT	9420
Sbjct	9361	TCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCTCTTAAGCCATTTCCTGTTT	9420
Query	9421	tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt	9480
Sbjct	9421	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTC	9480
Query	9481	tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt	9540
Sbjct	9481	TTTCTTTTTCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAA	9540
Query	9541	AGGTCGTGAGCCGCATGACTGCAGAGAGTGTGATACCTGGCCTCTCTGCAGATCATGT	9599
Sbjct	9541	AGGTCGTGAGCCGCATGACTGCAGAGAGTGTGATACCTGGCCTCTCTGCAGATCATGT	9599

>gb|EA019704.1| Sequence 6 from patent US 7129342
Length=9599

Score = 1.773e+04 bits (9599), Expect = 0.0
Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGCGACACTCCACCATGAATCACTCCCCGTGAGGAACTACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGCGACACTCCACCATGAATCACTCCCCGTGAGGAACTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGCAGCCTCCAGGA:	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCTTTCTTGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCTTTCTTGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Query	241	GCAAGACTGTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGTGTCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGTGTCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC	360
Query	361	CTCAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCTGGGTG	420
Sbjct	361	CTCAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCTGGGTG	420
Query	421	GCGGTGAGTGTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTGAGTGTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGAGCTAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGAGCTAGCCTATCCCCA	540
Query	541	AGGCAGCTCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCTCTATG	600
Sbjct	541	AGGCAGCTCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCTCTATG	600
Query	601	GCAATGAGGGTTCGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTCGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCCTTA	720
Query	721	CGTGGCGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGGG	780
Sbjct	721	CGTGGCGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGGG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACTTCTGTGTGCTCTTCTCTATCTTCTCTGCGCCCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACTTCTGTGTGCTCTTCTCTATCTTCTCTGCGCCCTGCTCTCTTGGCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAATCGAGTATTGTGTACGAGCGGGCGATGCCATCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAATCGAGTATTGTGTACGAGCGGGCGATGCCATCTGCACACTCCGGGGTGTG	1020

Query	1021	TCCCTTGC GTTTCGCGAGGGTAAACGCTTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGC GTTTCGCGAGGGTAAACGCTTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGCGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTGCG	1140
Sbjct	1081	CCACCAGGGACGCGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTGCG	1140
Query	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCAATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCAATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGAGACA	1380
Sbjct	1321	CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGAGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGAGTCTCGCGGGCATAGCGTATTCTCCATGTTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGAGTCTCGCGGGCATAGCGTATTCTCCATGTTGGGGA	1440
Query	1441	ACTGGCGAAGGTCTCTGGTAGTGCTGCTGCTATTTCGCGGCGTCGACGCGGAAACCCAGC	1500
Sbjct	1441	ACTGGCGAAGGTCTCTGGTAGTGCTGCTGCTATTTCGCGGCGTCGACGCGGAAACCCAGC	1500
Query	1501	TACCGGGGGAAATGCGCGGCCGACACCGGCTGGGCTTGTGGTCTCCTTACACAGGGC	1560
Sbjct	1501	TACCGGGGGAAATGCGCGGCCGACACCGGCTGGGCTTGTGGTCTCCTTACACAGGGC	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
Query	1621	TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCTTACCGAATTTCGCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCTTACCGAATTTCGCC	1740
Query	1741	AGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCTTCGACGAACGCCCTTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCTTCGACGAACGCCCTTACTGCT	1800
Query	1801	GGCACTACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCAGCCCGGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCAGCCCGGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGAATGATACGGATGTCTTCGCTCTTAAACAACACGAGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGAATGATACGGATGTCTTCGCTCTTAAACAACACGAGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTGTGACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTGTGACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCCTGTGTATCGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCCTGTGTATCGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160

Query	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCAGAGCTACGCCGCTGTCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCAGAGCTACGCCGCTGTCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCTTCCGTGTTCTTTACAGACCTGCCAGCCTTGTCCTCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCTTCCGTGTTCTTTACAGACCTGCCAGCCTTGTCCTCA	2400
Query	2401	CGGGCTCATCCACCTCCACCAGAACATTGTGGACGTGAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CGGGCTCATCCACCTCCACCAGAACATTGTGGACGTGAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGGCTCTGGGCCATTAAAGTGGGAGTACGTCGTCTCTCGTTCCTCTGCTTG	2520
Sbjct	2461	CAAGCATCGGCTCTGGGCCATTAAAGTGGGAGTACGTCGTCTCTCGTTCCTCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGCTTGTGT	2640
Query	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Query	2701	TCACGCCCTCTACGGGATGTGGCCTCTCCTCTGCTCCTGCTGGCGTGTGCTCACGCGG	2760
Sbjct	2701	TCACGCCCTCTACGGGATGTGGCCTCTCCTCTGCTCCTGCTGGCGTGTGCTCACGCGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTGTGCGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTGTGCGGTTAA	2820
Query	2821	TGGCGTGAAGTCTGTGCGCATATTACAAGCGCTATATCAGTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGTGAAGTCTGTGCGCATATTACAAGCGCTATATCAGTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACAGCTCC	2940
Sbjct	2881	AGTATTTTCTGACCAAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACAGCTCC	2940
Query	2941	GGGGGGGCGCGCATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCTGGTATTG	3000
Sbjct	2941	GGGGGGGCGCGCATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCTGGTATTG	3000
Query	3001	ACATACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCTACTTCTGTCGCGTTTCAAGGCTTCTCCGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCTACTTCTGTCGCGTTTCAAGGCTTCTCCGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAGATC	3240
Query	3241	TGGCGTGGCTGTGGAACAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCAGTGGG	3300
Sbjct	3241	TGGCGTGGCTGTGGAACAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCAGTGGG	3300

Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCAAGGGGTGGAGGTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCAAGGGGTGGAGGTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAAGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAAGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGATCACCACAGGGTCTGTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGATCACCACAGGGTCTGTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCGTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCGTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCAGCGCGGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCAGCGCGGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGCCCAATTCTCTACTTTGAAAGGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGCCCAATTCTCTACTTTGAAAGGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTGTGTCGCCCGCGGACACGCCGTGGGCTATTACAGGGCCGCGGTGTGACACC	3900
Sbjct	3841	GTCCGCTGTGTGTCGCCCGCGGACACGCCGTGGGCTATTACAGGGCCGCGGTGTGACACC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCACCCGGCAGCGGTAAAGAGCACCAGGTCCCAGCTGCGTACGACGCC	4080
Sbjct	4021	ACCTGCATGCTCCACCCGGCAGCGGTAAAGAGCACCAGGTCCCAGCTGCGTACGACGCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Query	4201	CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGATGCCACATCCATCT	4320
Query	4321	TGGGCTACGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCAGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCTACGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCAGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGTTGCTC	4440

Query	4441	TGTCACCACCAGGAGATCCCCCTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCACCACCAGGAGATCCCCCTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCACGAGTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCACGAGTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGC	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGC	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCTTACCTTTACCATTTAGACAACACACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCTTACCTTTACCATTTAGACAACACACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCAGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCAGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCAGACAAAGCAGAGTGGGGAGAAGCTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTTATCCAGACAAAGCAGAGTGGGGAGAAGCTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGGCCCTCCCCCATCTGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGGCCCTCCCCCATCTGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAAGATGAAGTACACCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAAGATGAAGTACACCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTGTCACGAGCACCTGGGTGCTCGTTGGCGGGCTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTGTCACGAGCACCTGGGTGCTCGTTGGCGGGCTCC	5340
Query	5341	TGGCTGCTCTGGCCCGGTATTGCTGTCAACAGGCTCGTGCTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCCGGTATTGCTGTCAACAGGCTCGTGCTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCTCCCGCCATGCAGAGGTTATCA	5580

Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAACTATTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAACTATTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCTCTTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCCGGTGGCGCTA	5820
Sbjct	5761	TCTCTTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCCGGTGGCGCTA	5820
Query	5821	CTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTC	5940
Sbjct	5881	TCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTC	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGCGCAGTTG	6060
Sbjct	6001	TCTCGCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGCGCAGTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Query	6121	ACCATGTTTCCCCCAGCAGCTACGTGCCGAGAGCGATGACGCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCAGCAGCTACGTGCCGAGAGCGATGACGCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGATACCATTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGATACCATTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTG	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTG	6360
Query	6361	CCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTACGCCTACACCA	6540
Sbjct	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTACGCCTACACCA	6540
Query	6541	CGGGCCCTGTACTCCCTTCTGCGCCGAACATAAGTTGCGGCTGTGGAGGGGTCTGTG	6600
Sbjct	6541	CGGGCCCTGTACTCCCTTCTGCGCCGAACATAAGTTGCGGCTGTGGAGGGGTCTGTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720

Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCTTGAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGCGCCCTTGAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGGCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGGCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCATGCTACTGATCCCTCCCATATAACACGAGAGCGGCGG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCATGCTACTGATCCCTCCCATATAACACGAGAGCGGCGG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCCTCCGTACCTGCAGAAATTCGCGGAAGTTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCCTCCGTACCTGCAGAAATTCGCGGAAGTTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Query	7201	TCGGGCGCGCCGCGACTACAACCCCCGCTAGTAGAGAGCTGGAAAAGCCTGACTACG	7260
Sbjct	7201	TCGGGCGCGCCGCGACTACAACCCCCGCTAGTAGAGAGCTGGAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCG	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCG	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCACAAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCACAAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCGCGCGGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCGCGCGGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGCGCGCGGTTGGAGGGGAGGCTGGGGATCCGGATCTCAGCGACGGGTATGTCGA	7560
Sbjct	7501	CCATGCGCGCGGTTGGAGGGGAGGCTGGGGATCCGGATCTCAGCGACGGGTATGTCGA	7560
Query	7561	CGGTAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCGGA	7620
Sbjct	7561	CGGTAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAACCTGCCATCAACGCATGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAACCTGCCATCAACGCATGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCCTTCACGCAGTGTTCGC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCCTTCACGCAGTGTTCGC	7740
Query	7741	AAAGGCAGAGAAGATCACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAGC	7800
Sbjct	7741	AAAGGCAGAGAAGATCACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAGC	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860

Query	7861	AAGCTTGACGCTGACGCCCCACATTACGCAAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGACGCTGACGCCCCACATTACGCAAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTGTCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTC	7980
Sbjct	7921	ACGTCCGTGTCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAGAAGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAGAAGAGGTTTTCTGCG	8040
Query	8041	TTACGCTGAGAAAGGGGGTCGTAAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTACGCTGAGAAAGGGGGTCGTAAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCTCGGCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCTCGGCGTGA	8160
Query	8161	TGGGAAGCTCCTACGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCGTGCAAG	8220
Query	8221	CGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGAGGAGGCAATTTACCAATGTTGTGACTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGAGGAGGCAATTTACCAATGTTGTGACTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACGCGGCTACCGAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACGCGGCTACCGAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Query	8461	CTAGCTGTGGTAAACCCCTCACTTGCTACATCAAGGCCCGGCGAGCCTGTGAGCCGCGAG	8520
Sbjct	8461	CTAGCTGTGGTAAACCCCTCACTTGCTACATCAAGGCCCGGCGAGCCTGTGAGCCGCGAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGGAAGGCTATGACCAAGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGGAAGGCTATGACCAAGTACT	8640
Query	8641	CCGgggggggggggggggggggggACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGCTGTGAGTCGCCACGACGCGCGTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGCTGTGAGTCGCCACGACGCGCGTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCACAAACCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCACAAACCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCAATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGTGAGA	8940
Sbjct	8881	CCCAATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGTGAGA	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000

Query	1	GCCAGCCCCCTGATGGGGGGCAGACTCCACCATGAATCACTCCCCTGTGAGGAACACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGGCAGACTCCACCATGAATCACTCCCCTGTGAGGAACACTG	60
Query	61	TCTTCACGAGAAAGCGTCTAGGCATGGCGTTAGTATGAGTGTCTGTGCAGCCTCCAGGA	120
Sbjct	61	TCTTCACGAGAAAGCGTCTAGGCATGGCGTTAGTATGAGTGTCTGTGCAGCCTCCAGGAC	120
Query	121	ccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCTTTTCTTGATAAAACCGCTCAATGCTTGGAGATTTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCTTTTCTTGATAAAACCGCTCAATGCTTGGAGATTTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGTTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGTTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGGCAGTGCCTCCGGAGGTCTCTGTAGACCGTGACCATGAGCAGAACTCTAAAC	360
Sbjct	301	GTGCTTGGCAGTGCCTCCGGAGGTCTCTGTAGACCGTGACCATGAGCAGAACTCTAAAC	360
Query	361	CTCAAAGAAAAACCAACGTAACCAACCGTCGCCACAGGACGTCAAGTTCCTCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAACGTAACCAACCGTCGCCACAGGACGTCAAGTTCCTCCGGGTG	420

Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTAGCCTATCCCCA	540
Query	541	AGGCACGTCGGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTGGGTAAGGTCATCGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTGGGTAAGGTCATCGATACCCCTTA	720
Query	721	CGTGGGGCTTCGCCGACCTCATGGGGTACATACGCTCGTCGGCGCCCTCTTGGAGGGG	780
Sbjct	721	CGTGGGGCTTCGCCGACCTCATGGGGTACATACGCTCGTCGGCGCCCTCTTGGAGGGG	780
Query	781	CTGCCAGGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCCCTGGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACCTTCCCTGGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGGCTGACTG	900
Query	901	TGCCCGCTTCAGCTACCAAGTGCACAATTCTCGGGGCTTACCATGTACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCTACCAAGTGCACAATTCTCGGGGCTTACCATGTACCAATGATT	960
Query	961	GCCTTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCTTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCTTTCGCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCTTTCGCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGACGCGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Sbjct	1081	CCACCAGGACGCGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Query	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATATGATGATGAACCTGGT	1320
Query	1321	CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCACAGCCATCATGGACA	1380
Sbjct	1321	CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCACAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTACTGGGGAGTCTGGCGGGCATAGCGTATTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTACTGGGGAGTCTGGCGGGCATAGCGTATTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTATTGCGCGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTATTGCGCGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGAAATGCCGGCCGCCACACGGCTGGGCTTGTGGTCTCCTTACACAGGCG	1560
Sbjct	1501	TCACCGGGGAAATGCCGGCCGCCACACGGCTGGGCTTGTGGTCTCCTTACACAGGCG	1560

Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCAGATCAATAGCAGCGCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCAGATCAATAGCAGCGCT	1620
Query	1621	TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACAAAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACAAAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCAGCGCTTACCAGTTTGTGCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCAGCGCTTACCAGTTTGTGCC	1740
Query	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCTCCCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCTCCCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCAGCCCGGTGGTGGTGGGAACGACCGCAGGTCGGGCGCGCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCAGCCCGGTGGTGGTGGGAACGACCGCAGGTCGGGCGCGCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCTTAAACAACACAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCTTAAACAACACAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCTTTGTGTATCTCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCTTTGTGTATCTCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGATACATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGATACATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGTTCGAGCACAGGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGTTCGAGCACAGGCTGGAAGCGGCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCTCATCCACCTCCACAGAACATTGTGGAGCTGCAGTACTTGTACGGGTAGGGT	2460
Sbjct	2401	CCGGCTCATCCACCTCCACAGAACATTGTGGAGCTGCAGTACTTGTACGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGGCTGTGCTCTGCTTGTGGATGATGTTACTCATATCCAAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGGCTGTGCTCTGCTTGTGGATGATGTTACTCATATCCAAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGCTTTGTGT	2640
Sbjct	2581	CTTTGGAGAACTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGCTTTGTGT	2640
Query	2641	CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGGAGCGG	2700

Query	2701	TCTACGCCCTCTACGGGATGTGGCTCTCCTCTGCTCCTGCGTGGCGTGGCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCTCTCCTCTGCTCCTGCGTGGCGTGGCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGCGCTGTGTTCTTGTGGGTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGCGCTGTGTTCTTGTGGGTAA	2820
Query	2821	TGGCGCTGACTCTGTGCCTATTACAAGCGTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCCTATTACAAGCGTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCACTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCACTCAACGTCC	2940
Query	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCTTGGTATTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCTTGGTATTG	3000
Query	3001	ACATCACCAACTACTCTCTGCGCATCTTCGGACCCCTTGGATTCTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAACTACTCTCTGCGCATCTTCGGACCCCTTGGATTCTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCTACTTCGTGCGCGTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCTACTTCGTGCGCGTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCATGTGTATAAACCATCTCACCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAGATC	3240
Sbjct	3181	CCATGTGTATAAACCATCTCACCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCAGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCAGTGGG	3300
Query	3301	GGCGAGATACCGCCGCGTGGGTGACATCATCAACGGCTTGGCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGCGAGATACCGCCGCGTGGGTGACATCATCAACGGCTTGGCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACGTCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTGTCTGG	3420
Sbjct	3361	GCCAGGAGATACGTCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTGTCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGGAGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGGAGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCTTGGAACGTCATCAATGGGGTATGCTGGACTGTCTACCAACGGGCGCGAA	3600
Sbjct	3541	AAACCTTCTTGGAACGTCATCAATGGGGTATGCTGGACTGTCTACCAACGGGCGCGAA	3600
Query	3601	CGAGGACCATCGCATACCCAAGGGTCTGTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATACCCAAGGGTCTGTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTCAATCCCGTGCGCCGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTCAATCCCGTGCGCCGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCTTGTCTTCGCCCGGCCCAATTCCTACTTGAAGGCTCCTCGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCTTGTCTTCGCCCGGCCCAATTCCTACTTGAAGGCTCCTCGGGG	3840

Query	3841	GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCTATTACAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCTATTACAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCACAGAGCTTCCAGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCACAGAGCTTCCAGTGGCCC	4020
Query	4021	ACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGTCTAACCCCTCTGTGTCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGTCTAACCCCTCTGTGTCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTGTATCCTAATATCAGGACCGGGGTGAGACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTGTATCCTAATATCAGGACCGGGGTGAGACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCCTTGCCGACGGCGGGTGTCTAG	4260
Sbjct	4201	CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCCTTGCCGACGGCGGGTGTCTAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTGTGACGAGTGCACCTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTGTGACGAGTGCACCTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGCTCACTGTGTCCCATCTTAACATCGAGGAGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGCTCACTGTGTCCCATCTTAACATCGAGGAGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGTGCAGCAGCTCGCCCGGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGTGCAGCAGCTCGCCCGGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGGCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGGCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCTACCTTTTACCATTGAGACAACCAACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCTACCTTTTACCATTGAGACAACCAACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGCGAGGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGCGAGGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTACGCCCGCGGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTACGCCCGCGGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980

Query	4981	GGCTTCCCCTGTGCCAGGACCATTCTGAATTTTGGGAGGGCGCTTTACGGCCCTCACTC	5040
Sbjct	4981	GGCTTCCCCTGTGCCAGGACCATTCTGAATTTTGGGAGGGCGCTTTACGGCCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCCTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCCTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCCTTAAACCCACCCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCCTTAAACCCACCCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGATGAAGTACCCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGATGAAGTACCCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGATATGTGGCCGACCTGGAGGTCGTACGAGACCTGGGTGCTCGTGTGGCGGGCTCC	5340
Sbjct	5281	CATGATATGTGGCCGACCTGGAGGTCGTACGAGACCTGGGTGCTCGTGTGGCGGGCTCC	5340
Query	5341	TGGCTGCTCTGGCCCGGTATTGCCTGTCAACAGGCTGCGTGGTCAATAGTGGGACGAGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCCGGTATTGCCTGTCAACAGGCTGCGTGGTCAATAGTGGGACGAGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATCGAGAGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATCGAGAGTTATCA	5580
Query	5581	CCCCGTCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCGTCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTTGGTAACCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCCGGTGCCGCTA	5820
Sbjct	5761	TCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTTTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTTTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCTCGTGGACATTCTTGCAGGGTATGGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCTCGTGGACATTCTTGCAGGGTATGGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGGCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGGCATCC	6000
Query	6001	TCTCGCTTGAGGCCCTTTGTAGTCGGTGTGGTCTGCGCAGCAATATGCGCCGGCAGCTTG	6060
Sbjct	6001	TCTCGCTTGAGGCCCTTTGTAGTCGGTGTGGTCTGCGCAGCAATATGCGCCGGCAGCTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCGGGGGA	6120

Query	6121	ACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGCAGCCGCCGCTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGCAGCCGCCGCTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACCTCCATGCTCCGGTTCTTGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACCTCCATGCTCCGGTTCTTGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Query	6361	CCITTGTGTCCTGCCAGCGCGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCITTGTGTCCTGCCAGCGCGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGTGCACACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGTGCACACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCA	6540
Sbjct	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCTTCTTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCTTCTTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGATTCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGATTCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAAITGGAGC	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAAITGGAGC	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGTTGGGTCGCAATTACCTTGCAGAGCCGGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGTTGGGTCGCAATTACCTTGCAGAGCCGGAACCGG	6840
Query	6841	ACGTAGCCGTTGTGAGCTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGGCG	6900
Sbjct	6841	ACGTAGCCGTTGTGAGCTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGGCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Query	7201	TCGGGGCGCGCCGGACTACAACCCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCGGGGCGCGCCGGACTACAACCCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260

Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCCTCTGTGCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCCTCTGTGCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTAGCGGTGGTCTCACCGAATCAACCCCTATCTACTGCCTTGGCGGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTAGCGGTGGTCTCACCGAATCAACCCCTATCTACTGCCTTGGCGGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCGACTCCGACGTTGAGTCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCGACTCCGACGTTGAGTCTATTCTT	7500
Query	7501	CCATGCCCCCTTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGTTGGA	7560
Sbjct	7501	CCATGCCCCCTTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGTTGGA	7560
Query	7561	CGGTGAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561	CGGTGAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAATAATGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAATAATGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAACTCGGTGATTCCACCACCTTCACGCGAGTGCTTGGC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAACTCGGTGATTCCACCACCTTCACGCGAGTGCTTGGC	7740
Query	7741	AAAGCAGAAGAAAGTCACATTGACAGACTGCAAGTCTGGACAGCCATTACGAGGAGC	7800
Sbjct	7741	AAAGCAGAAGAAAGTCACATTGACAGACTGCAAGTCTGGACAGCCATTACGAGGAGC	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGACGCGCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGCGAAAAG	7920
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Query	7921	ACGTCCGTGTCATGCCAGAAAGCCGTAGCCACATCAACTCCGTGTGGAAGAGCCTTC	7980
Sbjct	7921	ACGTCCGTGTCATGCCAGAAAGCCGTAGCCACATCAACTCCGTGTGGAAGAGCCTTC	7980
Query	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAAGAGGTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAAGAGGTTTCTGCG	8040
Query	8041	TTACGCTGAGAGGGGGGTCGTAAAGCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGGC	8100
Sbjct	8041	TTACGCTGAGAGGGGGGTCGTAAAGCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGGC	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
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Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTGTCGAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTGTCGAAG	8220
Query	8221	CGTGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTGACTCCA	8280
Sbjct	8221	CGTGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
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Query	8341	CCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400

Query	8401	CCAATTCAAGGGGGGAAAACTGCGGTACCGCAGGTGCCGCGAGCGGCTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCTACTGACAA	8460
Query	8461	CTAGTGTGGTAAACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCGCGAG	8520
Sbjct	8461	CTAGTGTGGTAAACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCGCGAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAAGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAAGTACT	8640
Query	8641	CGGCCCCCGGGGACCCCCACAACAGAAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CGGCCCCCGGGGACCCCCACAACAGAAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCAACGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCAACGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGAGA	8940
Sbjct	8881	CCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGAGA	8940
Query	8941	TTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAATCAATAGGTGGCG	9060
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Query	9061	CATGCTCAGAAAACITGGGGTCCCGCCCTTGCAGGCTTGGAGACACCGGGCCCGAGCG	9120
Sbjct	9061	CATGCTCAGAAAACITGGGGTCCCGCCCTTGCAGGCTTGGAGACACCGGGCCCGAGCG	9120
Query	9121	TCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTCA	9180
Sbjct	9121	TCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTCA	9180
Query	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Sbjct	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Query	9241	TGTCGGTGTGGTTCACGGCTGGCTACAGCGGGGAGACATTATACAGCGGTGTCTCATG	9300
Sbjct	9241	TGTCGGTGTGGTTCACGGCTGGCTACAGCGGGGAGACATTATACAGCGGTGTCTCATG	9300
Query	9301	CCGCGCCCGCTGGTCTGGTTTTGGCTACTCTGCTCGTGCAGGGGTAGGCATCTACC	9360
Sbjct	9301	CCGCGCCCGCTGGTCTGGTTTTGGCTACTCTGCTCGTGCAGGGGTAGGCATCTACC	9360
Query	9361	TCTCCCCAACCGATGAAGGTGGGGTAAACACTCCGGCTCTTAAGCCATTCTCTGTTT	9420
Sbjct	9361	TCTCCCCAACCGATGAAGGTGGGGTAAACACTCCGGCTCTTAAGCCATTCTCTGTTT	9420
Query	9421	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9480
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Query	9481	TTTCTTTTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAA	9540
Sbjct	9481	TTTCTTTTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAA	9540


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Query   9541  AGGTCGGTGAGCCGCATGACTGCAGAGAGTGTGATACTGGCCTCTCTGCAGATCATGT 9599
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Sbjct   9541  AGGTCGGTGAGCCGCATGACTGCAGAGAGTGTGATACTGGCCTCTCTGCAGATCATGT 9599

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>**gb|AR119831.1|AR119831** Sequence 2 from patent US 6153421
Length=9599

Score = 1.773e+04 bits (9599), Expect = 0.0
Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
Strand=Plus/Plus

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Query    1      GCCAGCCCCCTGATGGGGCGACACTCCACCATGAATCACTCCCTCTGTGAGGAAGTACTG 60
Sbjct    1      GCCAGCCCCCTGATGGGGCGACACTCCACCATGAATCACTCCCTCTGTGAGGAAGTACTG 60

Query   61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTGCAGCCTCCAGGA 120
Sbjct   61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTGCAGCCTCCAGGA 120

Query  121      ccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATGCCAG 180
Sbjct  121      CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATGCCAG 180

Query  181      GACGACCGGGTCCTTTCTTGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC 240
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Query  241      GCAAGACTGTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGTGGTACTGCTGATAGG 300
Sbjct  241      GCAAGACTGTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGTGGTACTGCTGATAGG 300

Query  301      GTGCTTGCAGAGTCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC 360
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Query  361      CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAGTTCCCGGGTG 420
Sbjct  361      CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAGTTCCCGGGTG 420

Query  421      GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC 480
Sbjct  421      GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC 480

Query  481      GCGCGACGAGGAAGACTTCCGAGCGGTTCGCAACCTCGAGGTAGACGTGAGCTATCCCCA 540
Sbjct  481      GCGCGACGAGGAAGACTTCCGAGCGGTTCGCAACCTCGAGGTAGACGTGAGCTATCCCCA 540

Query  541      AGGCACGTTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTATG 600
Sbjct  541      AGGCACGTTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTATG 600

Query  601      GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCT 660
Sbjct  601      GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCT 660

Query  661      GGGGCCCCACAGACCCCCCGGTAGGTTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA 720
Sbjct  661      GGGGCCCCACAGACCCCCCGGTAGGTTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA 720

Query  721      CGTGGCGCTTCGCCGACCTCATGGGGTACATACCGCTCTGCGGCGCCCTCTTGGAGGCG 780
Sbjct  721      CGTGGCGCTTCGCCGACCTCATGGGGTACATACCGCTCTGCGGCGCCCTCTTGGAGGCG 780

Query  781      CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG 840
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Query  841      GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGGCTGACTG 900
Sbjct  841      GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGGCTGACTG 900

Query  901      TGCCCGCTTCAGCCTACCAAGTGCAGCAATTCCTCGGGGCTTTACCATGTACCAATGATT 960
Sbjct  901      TGCCCGCTTCAGCCTACCAAGTGCAGCAATTCCTCGGGGCTTTACCATGTACCAATGATT 960

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Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCTTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCTTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGCGAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTGCG	1140
Sbjct	1081	CCACCAGGGACGCGAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTGCG	1140
Query	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCTCATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCTCATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGATCCCAAGCCATCATGGACA	1380
Sbjct	1321	CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGATCCCAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTACTGGGGAGTCTCTGGCGGGCATAGCGTATTTCCTCATGGTGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTACTGGGGAGTCTCTGGCGGGCATAGCGTATTTCCTCATGGTGGGA	1440
Query	1441	ACTGGGCGAAGGTCTCTGGTAGTGTGCTGCTGCTATTTCGCCGGCGTCGACCGGAAACCCAGC	1500
Sbjct	1441	ACTGGGCGAAGGTCTCTGGTAGTGTGCTGCTGCTATTTCGCCGGCGTCGACCGGAAACCCAGC	1500
Query	1501	TCACCGGGGGAATGCGGCCGCGACACCGGCTGGGCTTGTGGTCTCCTTACACAGGGCG	1560
Sbjct	1501	TCACCGGGGGAATGCGGCCGCGACACCGGCTGGGCTTGTGGTCTCCTTACACAGGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
Query	1621	TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAT	1680
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Sbjct	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCTTCGACGAACGCCCTTACTGCT	1800
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Sbjct	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACGACAGGTGCGGCGGCCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCTTAACAACACACAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCTTAACAACACACAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACCTCACTGGATTACCAAAAGTGTGCGGAGCGC	2040
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Query	2041	CCCCTTGTGTCATCGAGGGGTGGGCAACAACACCTTGTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGAGGGGTGGGCAACAACACCTTGTCTGCCCCACTGATTGCTTCC	2100

Query	2101	GCAAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
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Query	2161	GCATGGTGCCTACCGGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
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Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGCCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGCCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCCGTTGCTGC	2340
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Query	2401	CGGCGCTCATCCACCTCCACAGAACATTGTGGACGTGCAGTACTTGTACGGGTAGGGT	2460
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Query	2461	CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCTTG	2520
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Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
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Sbjct	2641	CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGAGGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCTGCTCCTGCGGTGCGCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCTGCTCCTGCGGTGCGCTCAGCGGG	2760
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Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCCCGCCCTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCCCGCCCTCAACGTCC	2940
Query	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCCTGGTATTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCCTGGTATTG	3000
Query	3001	ACATACCAAACTACTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACTACTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAGTCCCTACTCTCGTGCAGTTCAAGGCCCTTCTCCGAGCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAGTCCCTACTCTCGTGCAGTTCAAGGCCCTTCTCCGAGCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAAGGCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAAGGCTGCGAGATC	3240

Query	3241	TGGCCGTGGCTGTGGAACCAAGTCGCTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAAGTCGCTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACGCCCGGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACGCCCGGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTGTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTGTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCTCGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACAGGGCGGGAA	3600
Sbjct	3541	AAACCTTCTCGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACAGGGCGGGAA	3600
Query	3601	CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTTGACACCCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTTGACACCCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTTACCTGGTACGAGGCACGCCGATGTCAATCCCGTGGCCCGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTTACCTGGTACGAGGCACGCCGATGTCAATCCCGTGGCCCGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTGCGCCCGGCCCATTTCTACTTGAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTGCGCCCGGCCCATTTCTACTTGAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCTATTACAGGCGCGGTGTGACACC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCTATTACAGGCGCGGTGTGACACC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGAGAACCTAGGACAAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGAGAACCTAGGACAAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCTCCAGAGCTTCCAGGTGGCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCTCCAGAGCTTCCAGGTGGCC	4020
Query	4021	ACCTGCATGCTCCACCCGCGAGCGGTAAAGACCAAGGTCCTCCGCTGCGTACGACGCC	4080
Sbjct	4021	ACCTGCATGCTCCACCCGCGAGCGGTAAAGACCAAGGTCCTCCGCTGCGTACGACGCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTGTATCCTAATATCAGGACCGGGGTGAGAACCAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTGTATCCTAATATCAGGACCGGGGTGAGAACCAATTACCA	4200
Query	4201	CTGGCAGCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGTCTAG	4260
Sbjct	4201	CTGGCAGCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGTCTAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACGTGCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACGTGCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTGTGCTCG	4380

Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACGTGTGCCATCTTAACATCGAGGAGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACGTGTGCCATCTTAACATCGAGGAGTTGCTC	4440
Query	4441	TGTCCACCACCGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCC	4620
Query	4621	CGACAGCGCGCATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGC	4680
Sbjct	4621	CGACAGCGCGCATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGC	4680
Query	4681	ACTTCGACTCTCTGTATAGACTGCAACACGTGTGTCACTACAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTCTGTATAGACTGCAACACGTGTGTCACTACAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCATACCTTTACCATTTAGACAACACACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCATACCTTTACCATTTAGACAACACACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCAGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCAGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCACCCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCACCCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGTATCCGCCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGTATCCGCCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTACAGATGAAGTACCCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTACAGATGAAGTACCCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGATGTTCGGCCGACCTGGAGGTGCTGACGAGCACTGGGTGCTCTGTGGCGGCGTCC	5340
Sbjct	5281	CATGATGTTCGGCCGACCTGGAGGTGCTGACGAGCACTGGGTGCTCTGTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCCGGTATTGCCCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCCGGTATTGCCCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520

Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCTGCTGTCAGAGCAACTGGCAGAACTCGAGGTCCTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCTGCTGTCAGAGCAACTGGCAGAACTCGAGGTCCTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCGCTA	5820
Query	5821	CTGCCCTTTGGGGTGTGGCCTAGCTGGCGCCGCCATCGGCAGCGTGGACTGGGGAAAGG	5880
Sbjct	5821	CTGCCCTTTGGGGTGTGGCCTAGCTGGCGCCGCCATCGGCAGCGTGGACTGGGGAAAGG	5880
Query	5881	TCTCGTGGACATTCTTTCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTC	5940
Sbjct	5881	TCTCGTGGACATTCTTTCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTC	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCCACCAGGAGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCCACCAGGAGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTTCGGTGTGGTCTGCGCAGCAATACTGCGCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTTCGGTGTGGTCTGCGCAGCAATACTGCGCGGCACGTTG	6060
Query	6061	GCCCGGGCAGGGGGGAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGA	6120
Sbjct	6061	GCCCGGGCAGGGGGGAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGA	6120
Query	6121	ACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGACGCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGACGCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGAGCCTTCACTGTAAACCGAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGAGCCTTCACTGTAAACCGAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTAACCATCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTAACCATCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAAACGCCATACACA	6540
Sbjct	6481	TCGGTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAAACGCCATACACA	6540
Query	6541	CGGGCCCCGTGATCTCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGATCTCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660

Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAAITGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAAITGGACG	6720
Query	6721	GGGTGCGCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGTTGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGTTGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGCCG	6900
Query	6901	GGAGAAGTGTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGTGTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGAGATGGCGCGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGAGATGGCGCGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGCGGAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGCGGAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTGCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTGCCCGGGCCCTGCCCG	7200
Query	7201	TCGGGCGCGCCGGACTACAAACCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCGGGCGCGCCGGACTACAAACCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGTACCACCTCCACGGTCCCTCCTGTGCTCCCG	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGTACCACCTCCACGGTCCCTCCTGTGCTCCCG	7320
Query	7321	CTCGAAAAAGCGTACGGTGGTCTCACCAGAAATCAACCTATCTACTGCCCTGGCCGAGC	7380
Sbjct	7321	CTCGAAAAAGCGTACGGTGGTCTCACCAGAAATCAACCTATCTACTGCCCTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCATTCTT	7500
Query	7501	CCATGCCCCCGTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCGTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTGCTGTGCTGCTCAATGCTTATTCTTGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTGCTGTGCTGCTCAATGCTTATTCTTGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAAACAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAAACAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCCTTACGCGAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCCTTACGCGAGTGCTTGCC	7740
Query	7741	AAAGGCAGAGAAAGTACATTGACAGACTGCAAGTTCGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAGAAAGTACATTGACAGACTGCAAGTTCGGACAGCCATTACCAGGACG	7800

Query	7801	TGCTCAAAGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAAGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTGACGCAAAATCCAAGTTTGCTATGGGGCAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTGACGCAAAATCCAAGTTTGCTATGGGGCAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTACGCTGAGAAAGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTCCCCGACCTGGGGC	8100
Sbjct	8041	TTACGCTGAGAAAGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTCCCCGACCTGGGGC	8100
Query	8101	TGCGCGTGTGCGGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGCGCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGCGCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCCAGGACAGCGGGTTGAATTCCTCGTGAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCCAGGACAGCGGGTTGAATTCCTCGTGAAG	8220
Query	8221	CGTGGAAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTGACTCCA	8280
Sbjct	8221	CGTGGAAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGGCACATCCGTACGAGGAGGCAATTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGGCACATCCGTACGAGGAGGCAATTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAACTCGCGTACCCGACAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAACTCGCGTACCCGACAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Query	8461	CTAGCTGTGGTAAACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGACGCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAAACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGACGCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCAGGAGGACGCGCGAGCCTGAGAGCCTTACAGGAGGCTATGACCAAGGTACT	8640
Sbjct	8581	CGGGGGTCAGGAGGACGCGCGAGCCTGAGAGCCTTACAGGAGGCTATGACCAAGGTACT	8640
Query	8641	CCGCCCCCCCCGGGGACCCCCACAACAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCGGGGACCCCCACAACAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGGTCTACTACCTTACCCGTG	8760
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Sbjct	8761	ACCTTACAACCCCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCAGGATGATACATGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCAGGATGATACATGATGA	8880
Query	8881	CCATTTCTTTTAGGCTCCTCATAGCCAGGATCAGCTTGAACAGGCTCTTAACGTGAGA	8940
Sbjct	8881	CCATTTCTTTTAGGCTCCTCATAGCCAGGATCAGCTTGAACAGGCTCTTAACGTGAGA	8940


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Query 8941 TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC 9000
Sbjct 8941 TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC 9000

Query 9001 ATGGGCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCGG 9060
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Sbjct 9361 TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTGTTT 9420

Query 9421 ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9480
Sbjct 9421 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTC 9480

Query 9481 ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9540
Sbjct 9481 TTTCTTTTTCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAA 9540

Query 9541 AGGTCGGTGAGCCGATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 9599
Sbjct 9541 AGGTCGGTGAGCCGATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 9599

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>dbj|DL479449.1| YEAST-BASED THERAPEUTIC FOR CHRONIC HEPATITIS C INFECTION
Length=9599

Score = 1.761e+04 bits (9536), Expect = 0.0
Identities = 9578/9599 (99%), Gaps = 0/9599 (0%)
Strand=Plus/Plus

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Query 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCCTGTGAGGAACACTG 60
Sbjct 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCCTGTGAGGAACATTG 60

Query 61 TCTTCACGCAGAAAGCGCTAGCCATGGCGTTAGTATGAGTGTGCTGCAGCCTCCAGGAc 120
Sbjct 61 TCTTCACGCAGAAAGCGCTAGCCATGGCGTTAGTATGAGTGTGCTGCAGCCTCCAGGAG 120

Query 121 ccccccTCCCGGGAGGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Sbjct 121 CCCCCCTCCCGGGAGGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180

Query 181 GACGACCGGGTCTTTCTTGATATAAACCCGCTCAATGCCTGGAGATTITGGGCGTGCCCC 240
Sbjct 181 GACGACCGGGTCTTTCTTGATATAAACCCGCTCAATGCCTGGAGATTITGGGCGTGCCCC 240

Query 241 GCAAGACTGTCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTGTGGTACTGCCTGATAGG 300
Sbjct 241 GCAAGACTGTCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTGTGGTACTGCCTGATAGG 300

Query 301 GTGCTTGCAGAGTGCCCGGGAGGTCTCGTAGACCGGTGCACCATGAGCAGAAATCCTAAAC 360
Sbjct 301 GTGCTTGCAGAGTGCCCGGGAGGTCTCGTAGACCGGTGCACCATGAGCAGAAATCCTAAAC 360

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Query	361	CTCAAAGAAAAACAAACGTAACACCAACCGTCGCCACAGGACGCTCAAGTTC	420
Sbjct	361	CTCAAAGAAAAACAAACGTAACACCAACCGTCGCCACAGGACGCTCAAGTTC	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTAGCCTATCCCCA	540
Sbjct	481	GCGGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCCTCCCGTGGCTCTCGGCCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCCTCCCGTGGCTCTCGGCCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTGGGTAAGGTCATCGATAACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTGGGTAAGGTCATCGATAACCCCTTA	720
Query	721	CGTGGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGGC	780
Sbjct	721	CGTGGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGGC	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCTGAACTATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCTGAACTATGCAACAG	840
Query	841	GGAACCTTCTGGTGTGCTCTTCTCTATCTCCTCTGGGCCCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACCTTCTGGTGTGCTCTTCTCTATCTCCTCTGGGCCCTGCTCTCTTGGCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCTTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCTTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCCTTCGCGAGGGTAACGCTCTCAGAGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCCTTCGCGAGGGTAACGCTCTCAGAGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CACACAGGGACGGCAAACTCCCAACAACGAGCTTCGACGTCATATCGATCTGCTTGTGCG	1140
Sbjct	1081	CACACAGGGACGGCAAACTCCCAACAACGAGCTTCGACGTCATATCGATCTGCTTGTGCG	1140
Query	1141	GGAGGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Sbjct	1141	GGAGGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380
Sbjct	1321	CCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTACTGGGGAGTCTGGCGGGCATAGCGTATTCTCCATGTTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTACTGGGGAGTCTGGCGGGCATAGCGTATTCTCCATGTTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTGCTATTTCGCGCGCTCGACGCGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTGCTATTTCGCGCGCTCGACGCGAAACCCACG	1500

Query	1501	TCACCGGGGAAATGCGGCGCCACACGGCTGGGCTTGTGTGCTCTTACACAGGCG	1560
Sbjct	1501	TCACCGGGGAAATGCGGCGCCACACGGCTGGGCTTGTGTGCTCTTACACAGGCG	1560
Query	1561	CCAAGCAGAATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGGCGCT	1620
Sbjct	1561	CCAAGCAGAATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGGCGCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGCTCTTCTATCAACAAAAAT	1680
Sbjct	1621	TGAATGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGCTCTTCTATCAGCAAAAAAT	1680
Query	1681	TCAACTCTTACGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCTTACCGATTTTGGCC	1740
Sbjct	1681	TCAACTCTTACGGCTGTCTGAGAGGTTGACAGCTGCCGACGCTTACCGATTTTGGCC	1740
Query	1741	AGGGCTGGGGTCTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTTACTGCT	1800
Query	1801	GGCCTACCTCCCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGCTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCCTACCTCCCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGCTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCAGCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCAGCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCTACCT	1920
Query	1921	ACAGCTGGGGTGCAATGATACGGATGCTTTCGTCTTAAACACACAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAATGATACGGAGCTTTCGTCTTAAACACACAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACCACTGATTACCAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACCACTGATTACCAAGTGTGCGGAGCGC	2040
Query	2041	CCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGTCTTGGCCACTGATTGCTTCC	2100
Sbjct	2041	CCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGTCTTGGCCACTGATTGCTTCC	2100
Query	2101	GCAAACTCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACTCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGCTGGAAGCGGCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAAGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCCGTGTCTGC	2340
Sbjct	2281	CGCGGGGCGAAGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCCGTGTCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCA	2400
Query	2401	CGGGCTCATCCACCTCCACAGAACATTGTGGACGTGACGATCTGTACGGGGTAGGGT	2460
Sbjct	2401	CGGGCTCATCCACCTCCACAGAACATTGTGGACGTGACGATCTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGGTCTCTGGGCCATTAAAGTGGGAGTACGTCGTCTCTCTGTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGGTCTCTGGGCCATTAAAGTGGGAGTACGTCGTCTCTCTGTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGCTTGTGT	2640

Query	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGAGCGG	2700
Sbjct	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGAGCGG	2700
Query	2701	TCACGCCCTCTACGGGATGCGCCTCTCCTCTGCTCTCTGCTGGCGTGTGCTCAGCGGG	2760
Sbjct	2701	CTACGCCCTCTACGGGATGCGCCTCTCCTCTGCTCTCTGCTGGCGTGTGCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGCGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGCGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACACGTC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACACGTC	2940
Query	2941	GGGGGGGGCGGATGCCGTCATCTTACTCATGTGTGTAGTACACCGACCGCTGGTATTG	3000
Sbjct	2941	GGGGGGGGCGGATGCCGTCATCTTACTCATGTGTGTAGTACACCGACCGCTGGTATTG	3000
Query	3001	ACATACCAAACACTACTCTCGGCCATCTTCGGACCCCTTGGATTCTTCAAGCCAGTTTC	3060
Sbjct	3001	ACATACCAAACACTACTCTCGGCCATCTTCGGACCCCTTGGATTCTTCAAGCCAGTTTC	3060
Query	3061	TTAAAGTCCCTACTTCTGTCGCGCTTCAAGGCGCTTCTCCGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCTACTTCTGTCGCGCTTCAAGGCGCTTCTCCGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAAGTCGTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAAGTCGTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGAGATACCGCCGCTGCGGTGACATCATCAACGGCTTCCCGCTCTCTGCCGATAGG	3360
Sbjct	3301	GGGAGATACCGCCGCTGCGGTGACATCATCAACGGCTTCCCGCTCTCTGCCGATAGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCTGGCAACGTGCATCAATGGGGATGCTGGACTGTCTACACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCTGGCAACGTGCATCAATGGGGATGCTGGACTGTCTACACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGATCACCCAAGGGTCTGTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGATCACCCAAGGGTCTGTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGTGGCCCGCTCTCAAGGTTCCCGCTCATTTGACACCGCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGTGGCCCGCTCTCAAGGTTCCCGCTCATTTGACACCGCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTGATTTCCCGTGCAGCGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTGATTTCCCGTGCAGCGCGAGGTG	3780

Query	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCGGCCCAATTTCCTACTTGAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCGGCCCAATTTCCTACTTGAAGGCTCCTCGGGGG	3840
Query	3841	GTCGCGTGTGTGCCCGCGGACACGCCGTGGGCCTATTACAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCGCGTGTGTGCCCGCGGACACGCCGTGGGCCTATTACAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCTCCACCAGCAGTCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCTCTCCACCAGCAGTCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCACCGGACGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGACGCCC	4080
Sbjct	4021	ACCTGCATGCTCCACCGGACGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGACGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTGTGTCGAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTGTGTCGAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATTACCA	4200
Query	4201	CTGGCAGCCCATCACGTACTCCACCTACGGCAAGTTCCCTTGCAGCGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCATCACGTACTCCACCTACGGCAAGTTCCCTTGCAGCGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTTATGACATAATAATTTGTGACGAGTGCCACTCCAGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTTATGACATAATAATTTGTGACGAGTGCCACTCCAGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACGTGCTTACCAAGCAGAGACTGCGGGGGCAGAGCTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACGTGCTTACCAAGCAGAGACTGCGGGGGCAGAGCTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACGTGTGCCATCCTAACATCGAGGAGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACGTGTGCCATCCTAACATCGAGGAGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCCTTTACGGCAAGGCTATCCCCCTCGAGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCCTTTACGGCAAGGCTATCCCCCTCGAGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTGCTCGTGTGACCGATGCTCTCATGACTGGCTTTACCGGG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTGCTCGTGTGACCGATGCTCTCATGACTGGCTTTACCGGG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTGCATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTGCATTTCAGCCTTG	4740
Query	4741	ACCTTACCTTTACCATTTAGACAAACACGCTCCCCAGGATGCTGTCTCAGGACTCAAC	4800
Sbjct	4741	ACCTTACCTTTACCATTTAGACAAACACGCTCCCCAGGATGCTGTCTCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGCGAGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACCGGACAGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920

Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTGGGAGGGCGTCTTTACGGGCTCCTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTGGGAGGGCGTCTTTACGGGCTCCTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAAGTTCTTACCTG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAAGTTCTTACCTG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTGTATCCGCCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTGTATCCGCCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAGAAATGAAGTACACCTGACGCACCCAAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAGAAATGAAGTACACCTGACGCACCCAAATCACCAAATACATCATGA	5280
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Sbjct	5281	CATGCATGTGCGGCCACCTGGAGGTGCTCACGAGCACTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCCGTATTGCCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCCGTATTGCCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGATCG	5400
Query	5401	TCTGTCCGGGAAGCCGGCAATTATACCTGCACAGGAGGTTCTCTACCAAGGATTCGATG	5460
Sbjct	5401	TCTGTCCGGGAAGCCGGCAATTATACCTGCACAGGAGGTTCTCTACCAAGGATTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCATCGAGAGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCATCGAGAGTTATCA	5580
Query	5581	CCCCGTGCTGCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCGTGCTGCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTgagggggTGGGTGGCTGCCAGCTCGCCGCCGCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTgagggggTGGGTGGCTGCCAGCTCGCCGCCGCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCATCGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCATCGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCTCGTGGACATTCTTGCAGGGATGAGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTC	5940
Sbjct	5881	TCTCGTGGACATTCTTGCAGGGATGAGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTC	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCTCCACGAGGAGCTGGTCAATCTGCTGCCGCCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCTCCACGAGGAGCTGGTCAATCTGCTGCCGCCCATCC	6000
Query	6001	TCTCGCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCGGCACGTTG	6060
Sbjct	6001	TCTCGCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCGGCACGTTG	6060

Query	6061	GCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Query	6121	ACCATGTTTCCCCCAAGCACTACGTGCCGAGAGCGATGAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCAAGCACTACGTGCCGAGAGCGATGAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Query	6361	CCTTTGTGTCTCGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTCGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
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Sbjct	6481	TCGGTCTTAGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCA	6540
Query	6541	CGGGCCCTGTACTTCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCTGTACTTCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAAGGCGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAAGGCGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGAGC	6720
Sbjct	6661	CTGACAATCTTAAATGCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGAGC	6720
Query	6721	GGGTGCGCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGAGGAGGATCAT	6780
Sbjct	6721	GGGTGCGCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGAGGAGGATCAT	6780
Query	6781	TCAGAGTAGGACTCCACAGTACCCTGGTGGGGTCGCAATTACCTTGCGAGCCGGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACAGTACCCTGGTGGGGTCGCAATTACCTTGCGAGCCGGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CGGCTCCATCTCTCAAGGCAACTTGCACCGCCAACATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CGGCTCCATCTCTCAAGGCAACTTGCACCGCCAACATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAAACCTCCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAAACCTCCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGACGCGG	7140
Sbjct	7081	AGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGACGCGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTCGCCCGGGCCTGCCCG	7200
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Query	7201	TCTGGGCGCGGCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
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Query	7261	AACCACTGTGGTTCATGGCTGCCCGTACCACCTCCACGGTCCCTCCTGTGCTTCCG	7320
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Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAGC	7380
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Query	7441	CATCCTCTGAGCCCGCCCTTCTGGCTG cccccc GACTCCGACGTGAGTCTTATCTT	7500
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Query	7501	CAATG cccccc TGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAATGTCGA	7560
Sbjct	7501	CAATGCCCCCTTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAATGTCGA	7560
Query	7561	CGGTAGTAGTGGGGCCGACACGGAAGATGTCGTGTCTGCTCAATGTCTTATCTCTGGA	7620
Sbjct	7561	CGGTAGTAGTGGGGCCGACACGGAAGATGTCGTGTCTGCTCAATGTCTTATCTCTGGA	7620
Query	7621	CAGGCGCACTCGTACCCCGTGCCTGCGGAAGAACA AAAA TGCCCATCAACGCACTGA	7680
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Query	7741	AAAGGCAGAAGAAAGTCACATTGACAGACTGCAAGTCTGGACAGCCATTACCAAGGAGC	7800
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Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCA AAAA GTGAAGGCTAACTTGCTATCCGTAGAGG	7860
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Query	7921	ACGTCCGTGTCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAGACCTTC	7980
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Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGGC	8040
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Query	8041	TTACGCTTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCTGTTTCCCCGACCTGGGGC	8100
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Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
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Query	8341	CCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
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Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCAGCGGCTACTGACAA	8460
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Query	8461	CTAGCTGTGGTAAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCCGCAG	8520
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Query	8821	CTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGAGA	8940
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Sbjct	9061	CATGCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
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Sbjct	9241	TGTCGGTGTGGTTACGGCTGGCTACAGCGGGGAGACATTTATACAGCGGTGTCCTATG	9300
Query	9301	CCGCGCCCGCTGGTCTGGTTTTGCTACTCTGCTCGCTGAGGGTAGGCATCTACC	9360
Sbjct	9301	CCGCGCCCGCTGGTCTGGTTTTGCTACTCTGCTCGCTGAGGGTAGGCATCTACC	9360
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Query	9421	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9480
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Query   9481  ttttttttttccattenttAATGGTGGCTCCAATCTTAGCCCTAGTCACGGCTAGCTGTGAA 9540
Sbjct   9481  TTTCTTTTTCCTTCITTAATGGTGGCTCCAATCTTAGCCCTAGTCACGGCTAGCTGTGAA 9540
Query   9541  AGGTCGGTGAGCCGCATGACTGCAGAGAGTGTCTGATACTGGCCTCTCTGCAGATCATGT 9599
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Length=9599

Score = 1.761e+04 bits (9536), Expect = 0.0
Identities = 9578/9599 (99%), Gaps = 0/9599 (0%)
Strand=Plus/Plus

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Query   61  TCTTACAGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTGAGCCTCAGGAA 120
Sbjct   61  TCTTACAGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTGAGCCTCAGGAA 120

Query   121  ccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
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Query   181  GACGACCGGGTCTTTCTTGGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC 240
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Query   241  GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGCGCTTGTGGTACTGCCTGATAGG 300
Sbjct   241  GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGCGCTTGTGGTACTGCCTGATAGG 300

Query   301  GTGCTTGCAGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCAGCAATCCTAAAC 360
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Query   361  CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAGAGTCCCGGGTG 420
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Query   421  GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGTCGCCGCGAGGGGCCCTAGATTGGGTGTGC 480
Sbjct   421  GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGTCGCCGCGAGGGGCCCTAGATTGGGTGTGC 480

Query   481  GCGGACGAGGAGAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCCA 540
Sbjct   481  GCGGACGAGGAGAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCCA 540

Query   541  AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG 600
Sbjct   541  AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG 600

Query   601  GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT 660
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Query   661  GGGGCCCCACAGACCCCGGCGTAGGTGCGCAATTTGGGTAAAGTTCATCGATACCCCTTA 720
Sbjct   661  GGGGCCCCACAGACCCCGGCGTAGGTGCGCAATTTGGGTAAAGTTCATCGATACCCCTTA 720

Query   721  CGTGGCGCTTCGCCGACCTCATGGGGTACATACCGCTCGTGGCGCCCTCTTGGAGGGG 780
Sbjct   721  CGTGGCGCTTCGCCGACCTCATGGGGTACATACCGCTCGTGGCGCCCTCTTGGAGGGG 780

Query   781  CTGCCAGGGCCCTGGCGCATGGCGTCCGGTTCTGGAAGACGCGCTGAACATGCAACAG 840
Sbjct   781  CTGCCAGGGCCCTGGCGCATGGCGTCCGGTTCTGGAAGACGCGCTGAACATGCAACAG 840

Query   841  GGAACCTTCTGTTGTCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGGCTGACTG 900
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Query	901	TGCCCGCTTCAGCCTACCAAGTGC	CAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
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Query	961	GCCTTAACCTCAGATATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGTG		1020
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Query	1021	TCCTTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG		1080
Sbjct	1021	TCCTTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG		1080
Query	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTGCG		1140
Sbjct	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTGCG		1140
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Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT		1260
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Query	1261	CTATCTATCCCGGCCATATAACGGGTTCATCGCATGGCATGGGATATGATGATGAACCTGGT		1320
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Query	1321	CCCCACGCGCAGCGTTGGTGGTAGCTCAGCTGCTCCGATCCCAAGCCATCATGGACA		1380
Sbjct	1321	CCCCACGCGCAGCGTTGGTGGTAGCTCAGCTGCTCCGATCCCAAGCCATCATGGACA		1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTGGCGGGCATAGCGTATTTCCTCATGGTGGGGA		1440
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Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTATTGTGGCGGCTGCACGCGGAAACCCAGC		1500
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Sbjct	1501	TCACCGGGGAAATGCCGCGCGACCAACGGCTGGGCTTGTGGTCTCCTTACACAGGGCG		1560
Query	1561	CCAAGCAGAACTCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT		1620
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Query	1981	GCAATTGGTTCCGTTGTACCTGGATGAACCTCAACTGGATTACCAAAAGTGTGCGGAGCGC		2040
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Query	2041	CCCCCTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCCTGCCCACTGATTGCTTCC	2100
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Sbjct	3001	ACATCACCAACTACTCTCTGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCTACTTCTGTCGCGTTTCAAGGCCCTTCTCCGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCTACTTCTGTCGCGTTTCAAGGCCCTTCTCCGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180

Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAGATC	3240
Query	3241	TGGCGTGGCTGTGGAAACAGTCGTCTTCTCCGAAATGGAGACCAAGTCATCACGTGGG	3300
Sbjct	3241	TGGCGTGGCTGTGGAAACAGTCGTCTTCTCCGAAATGGAGACCAAGTCATCACGTGGG	3300
Query	3301	GGCGAGATACCGCCGCGTGCCTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGCGAGATACCGCCGCGTGCCTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTGTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTGTGCTGG	3420
Query	3421	CGCCATCACGGCGTACGCCAGCAGACGAGAGGGCTCTTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCATCACGGCGTACGCCAGCAGACGAGAGGGCTCTTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTTCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTTCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCTCGGCAACGTCATCAATGGGGTATGCTGGACTGTCTACCACGGGCGCGAA	3600
Sbjct	3541	AAACCTTCTCGGCAACGTCATCAATGGGGTATGCTGGACTGTCTACCACGGGCGCGAA	3600
Query	3601	CGAGGACCATCGCATCACCAAGGGTCTGTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCAAGGGTCTGTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCGTGTACCTTGGCGGT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCGTGTACCTTGGCGGT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCGGCCATTTCCTACTTGAAAGGCTCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCGGCCATTTCCTACTTGAAAGGCTCTCGGGGG	3840
Query	3841	GTCCGCTGTGTGCCCCGCGGACACGCCGTGGGCTATTACGGGCCGCGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTGTGCCCCGCGGACACGCCGTGGGCTATTACGGGCCGCGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCTCTCCACCAGCAGTCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCTCTCCACCAGCAGTCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCACCCGCGAGCGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCACCCGCGAGCGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTGTCGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTGTCGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCATGGGGTGTGATCCTAAATATCAGGACCGGGGTGAGAACCAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCATGGGGTGTGATCCTAAATATCAGGACCGGGGTGAGAACCAATTACCA	4200
Query	4201	CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCACGCGGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCACGCGGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320

Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACGTGTGCCATCTCAACATCGAGGAGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACGTGTGCCATCTCAACATCGAGGAGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCATTCAAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGATTGGGCATCAATGCCGTGGCTACTACCGCGTCTTGACGTGCTGTCATCC	4620
Sbjct	4561	TGGTCGATTGGGCATCAATGCCGTGGCTACTACCGCGTCTTGACGTGCTGTCATCC	4620
Query	4621	CGACGAGCGGCGATGTTGTCGTCTGTGACCGATGCTCTCATGACTGGCTTACCGGGG	4680
Sbjct	4621	CGACGAGCGGCGATGTTGTCGTCTGTGACCGATGCTCTCATGACTGGCTTACCGGGG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCCTACCTTTACCATTTAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCCTACCTTTACCATTTAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTTACGGGCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTTACGGGCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCACCCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCACCCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCCTTAAACCCACCTCCATGGGGCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCCTTAAACCCACCTCCATGGGGCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAGAAATGAAGTCACCTGACGCACCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAGAAATGAAGTCACCTGACGCACCAATCACCAAATACATCATGA	5280
Query	5281	CATGCAATGTGGCCGACCTGGAGGTGCTCAGGAGCACTGGGTGCTCGTGTGGCGCGTCC	5340
Sbjct	5281	CATGCAATGTGGCCGACCTGGAGGTGCTCAGGAGCACTGGGTGCTCGTGTGGCGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460

Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTATATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTATATCA	5580
Query	5581	CCCCGTGCTGCCAGACCACTGGCAGAACTCGAGGCTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCGTGCTGCCAGACCACTGGCAGAACTCGAGGCTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCGCTGTCAACGCTGCCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCGCTGTCAACGCTGCCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCAACGAGCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCAACGAGCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCTCTCTCAACATATTggggggTGGGTGGCTGCCAGCTCGCCGCCCGCCGGTGGCGCTA	5820
Sbjct	5761	TCTCTCTCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCCGGTGGCGCTA	5820
Query	5821	CTGCCCTTTTGGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTTTGGGGCGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCTCTGGGACATTCTTGACGGGTATGGCGCGGGCGTGGCGGGAGCTCTTTAGCATTCA	5940
Sbjct	5881	TCTCTGGGACATTCTTGACGGGTATGGCGCGGGCGTGGCGGGAGCTCTTTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCTCCACGAGGACCTGGTCAATCTGCTGCCCGGCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCTCCACGAGGACCTGGTCAATCTGCTGCCCGGCATCC	6000
Query	6001	TCTGCCTGGAGCCCTTTGATGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGTTG	6060
Sbjct	6001	TCTGCCTGGAGCCCTTTGATGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGTTG	6060
Query	6061	GCCCGGGCAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Sbjct	6061	GCCCGGGCAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Query	6121	ACCATGTTTCCCCCAGCACTACGTGCCGAGAGCGATGACGCGCCCGCTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCAGCACTACGTGCCGAGAGCGATGACGCGCCCGCTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAAGCTATGCCACAACCTGCCTGGGATT	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAAGCTATGCCACAACCTGCCTGGGATT	6360
Query	6361	CCCTTGTGCTCTGCCAGCGCGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCCTTGTGCTCTGCCAGCGCGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCATTAACGCCCTACACCA	6540
Sbjct	6481	TCGGTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCATTAACGCCCTACACCA	6540
Query	6541	CGGGCCCCCTGTACTCCCCCTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCCTGTACTCCCCCTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600

Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAAITGGAGC	6720
Sbjct	6661	CTGACAATCTTAAATGCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAAITGGAGC	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCCG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCCG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTGTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTGTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGACCCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGACCCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTGCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTGCCCGGGCCCTGCCCG	7200
Query	7201	CTGGGCGCGGCGGACTACAACCCCCGCTAGTAGAGAGCTGAAAAAGCCTGACTACG	7260
Sbjct	7201	CTGGGCGCGGCGGACTACAACCCCCGCTAGTAGAGAGCTGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCG	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCG	7320
Query	7321	CTCGAAAAAGCGGTACGGTGGTCTCACCGAATCAACCCCTATCTACTGCCTTGGCGGAGC	7380
Sbjct	7321	CTCGAAAAAGCGGTACGGTGGTCTCACCGAATCAACCCCTATCTACTGCCTTGGCGGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCTATTCTT	7500
Query	7501	CATGCCCCCCCCCTGGAGGGGGAGCCTGGGGATCCGGAATCTCAGCGACGGGTCATGTCGA	7560
Sbjct	7501	CCATGCCCCCCCCCTGGAGGGGGAGCCTGGGGATCCGGAATCTCAGCGACGGGTCATGTCGA	7560
Query	7561	CGGTAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCGGA	7620
Sbjct	7561	CGGTAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCGGA	7620
Query	7621	CAGGCGCACTCGTACCCCGTGCCTGCGGAAGAACAACAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTACCCCGTGCCTGCGGAAGAACAACAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCCTTACGCGAGTCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCCTTACGCGAGTCTTGCC	7740

Query	7741	AAAGGCAGAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGACGCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGACGCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTGTCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTC	7980
Sbjct	7921	ACGTCCGTGTCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTACGCCTGAGAGGGGGGTCGTAAAGCAGCTCGTCTCATCGTGTCCCGGACCTGGGGG	8100
Sbjct	8041	TTACGCCTGAGAGGGGGGTCGTAAAGCAGCTCGTCTCATCGTGTCCCGGACCTGGGGG	8100
Query	8101	TGCGCGTGTGCGAGAGAATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAGAATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGATTCCAATACTACCCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGATTCCAATACTACCCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTAATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTAATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACCGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGCGAACCCTGAGAGCCTTACCGGAGGCTATGACCAGGTACT	8640
Query	8641	CGGCCCCCGGGGGGACCCCAACAGAGATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CGGCCCCCGGGGGGACCCCAACAGAGATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CTTCAACGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CTTCAACGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCGCGTGGGAGACAGCAAGACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCGCGTGGGAGACAGCAAGACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880

Query	8881	CCCATTCTTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Sbjct	8881	CCCATTCTTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Query	8941	TCTACGGAGCCGTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCGTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Query	9061	CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCAGAGCTTGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCAGAGCTTGAGACACCGGGCCCGGAGCG	9120
Query	9121	TCCGGCTAGGCTTCTGTCTCAGAGGAGCGAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGGCTAGGCTTCTGTCTCAGAGGAGCGAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Query	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGTGGCCGGCTGGACT	9240
Sbjct	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGTGGCCGGCTGGACT	9240
Query	9241	TGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTATCACAGCGTGTCTCATG	9300
Sbjct	9241	TGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTATCACAGCGTGTCTCATG	9300
Query	9301	CCCGGCCCGCGCTGGTTCTGGTTTTGGCTACTCTCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Sbjct	9301	CCCGGCCCGCGCTGGTTCTGGTTTTGGCTACTCTCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Query	9361	TCTCCTCCCAACCGATGAAGGTTGGGGTAACACCTCCGGCCTTTAAGCCATTCTCTGTT	9420
Sbjct	9361	TCTCCTCCCAACCGATGAAGGTTGGGGTAACACCTCCGGCCTTTAAGCCATTCTCTGTT	9420
Query	9421	tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt	9480
Sbjct	9421	TTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTCCTTCTCCTTCTTTTTTTC	9480
Query	9481	tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt	9540
Sbjct	9481	TTTCTTTTTCCTCTCTTTAATGGTGGCTCACTCTTAGCCCTAGCTCTCGCCTAGCTGTGAA	9540
Query	9541	AGGTCGGTGAGCCGCATGACTGCAGAGAGTGTCTGATACCTGACCTCTCGCAGATCATGT	9599
Sbjct	9541	AGGTCGGTGAGCCGCATGACTGCAGAGAGTGTCTGATACCTGACCTCTCGCAGATCATGT	9599

>dbj|DI166564.1| YEAST-BASED THERAPEUTIC FOR CHRONIC HEPATITIS C INFECTION
Length=9599

Score = 1.761e+04 bits (9536), Expect = 0.0
Identities = 9578/9599 (99%), Gaps = 0/9599 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAAC TACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAAC TATTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTGACGCTTCAGGA:	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTGACGCTTCAGGAC	120
Query	121	ccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCTTCTTGGATAAACCGCTCAATGCCTGGAGATTTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCTTCTTGGATAAACCGCTCAATGCCCTGGAGATTTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCAGTAGTGTGGGTGCGGAAGGCCCTTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCAGTAGTGTGGGTGCGGAAGGCCCTTGGTACTGCCTGATAGG	300

Query	301	GTGCTTGCAGTGCCTCGGGAGGTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGTGCCTCGGGAGGTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCGAAGTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCGAAGTCCCGGGTG	420
Query	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Query	541	AGGCACGTTCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGTACCCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTTCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGTACCCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA	720
Query	721	CGTGGCGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTGGAGGGC	780
Sbjct	721	CGTGGCGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTGGAGGGC	780
Query	781	CTGCCAGGGCCCTGGGCGCATGGCGTCCGGGTTCTGGGAAGCGCGGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGGCGCATGGCGTCCGGGTTCTGGGAAGCGCGGTGAACATGCAACAG	840
Query	841	GGAACCTTCCIGGTTGCTCTTTCTCTATCTTCTTCTGGGCCCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACCTTCCIGGTTGCTCTTTCTCTATCTTCTTCTGGGCCCTGCTCTCTTGGCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAATCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAATCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCTTTCGCTTCGCGAGGGTAACGCCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCTTTCGCTTCGCGAGGGTAACGCCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACTCCCCACAACGAGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Sbjct	1081	CCACCAGGGACGGCAAACTCCCCACAACGAGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Query	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTTCATCGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTTCATCGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCCTACGCGAGCGTTGGTGGTAGCTCAGCTGCTCCGATCCCAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGCGAGCGTTGGTGGTAGCTCAGCTGCTCCGATCCCAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGA	1440

Query	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTATTTGCCGGCGTCGACGCGGAAACCCAGC	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTATTTGCCGGCGTCGACGCGGAAACCCAGC	1500
Query	1501	TCACGGGGGAAATGCCGGCCGACACCGGCTGGGCTTGTGTGCTTCCTTACACAGGGG	1560
Sbjct	1501	TCACGGGGGAAATGCCGGCCGACACCGGCTGGGCTTGTGTGCTTCCTTACACAGGGG	1560
Query	1561	CCAAGCAGAACTCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
Sbjct	1561	CCAAGCAGAACTCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCTTACCGATTITGGCC	1740
Sbjct	1681	TCAACTCTTTCAGGCTGTCTGAGAGGTTGACCAGCTGCCGACGCTTACCGATTITGGCC	1740
Query	1741	AGGGCTGGGGTCCCTATCAGTTATGCCAACGGAAGCGGCTTCGACGAACGCCCTTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCCTATCAGTTATGCCAACGGAAGCGGCTTCGACGAACGCCCTTACTGCT	1800
Query	1801	GGCACTACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCTACCT	1920
Query	1921	ACAGCTGGGGTGCAATGATACGGGATGTCTTCGCTTAAACACACGAGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAATGATACGGGATGTCTTCGCTTAAACACACGAGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAATCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAATCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACTCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGT	2160
Sbjct	2101	GCAAACTCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGT	2160
Query	2161	GCATGGTCGACTACCGGTATAGGCTTTGGCAGTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCGGTATAGGCTTTGGCAGTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGCAGGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGCAGGCTGGAAGCGGCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCCACACACAGTGGCAGGTCTCTCCGTGTTCTTACGACACCTGCCAGCCTTGCCA	2400
Sbjct	2341	TGTCCACACACAGTGGCAGGTCTCTCCGTGTTCTTACGACACCTGCCAGCCTTGCCA	2400
Query	2401	CGGGCTCATCCACTTCCACAGAACATTGTGGACGTGCAGTACTGTACGGGGTAGGGT	2460
Sbjct	2401	CGGGCTCATCCACTTCCACAGAACATTGTGGACGTGCAGTACTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGGCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGGCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTGTCTCCTGCTTGTGGATGATGTTACTCATATCCAAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTGTCTCCTGCTTGTGGATGATGTTACTCATATCCAAAGCGGAGGCGG	2580

Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGCTTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGCTTTGTGT	2640
Query	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGGAGCGG	2700
Sbjct	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCTCTGCTCCTGCTGGCGTGTGCTCAGCGGG	2760
Sbjct	2701	CCTACGCCCTCTACGGGATGTGGCCTCTCTCTGCTCCTGCTGGCGTGTGCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGCGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGCGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGGGTTCACCGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGGGTTCACCGTCC	2940
Query	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCCTGGTATTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCCTGGTATTG	3000
Query	3001	ACATACCAAACCTACTCTTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACCTACTCTTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGAGTGGGCGCACAAAGGCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGAGTGGGCGCACAAAGGCTGCGAGATC	3240
Query	3241	TGGCGTGGCTGTGGAACCAAGTCGTCCTTCCCGAATGGAGACCAAGCTCATCAGTGGG	3300
Sbjct	3241	TGGCGTGGCTGTGGAACCAAGTCGTCCTTCCCGAATGGAGACCAAGCTCATCAGTGGG	3300
Query	3301	GGGAGATACGCCCGGTGCGGTGACATCATCAACGGCTTGGCCGCTCTGCCCCGTAGGG	3360
Sbjct	3301	GGGAGATACGCCCGGTGCGGTGACATCATCAACGGCTTGGCCGCTCTGCCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTTGGGCCAGCCGACGGAATGGTCTCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTTGGGCCAGCCGACGGAATGGTCTCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAACCAAGTGGAGGGTGAAGTGCAGATCGTGCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAACCAAGTGGAGGGTGAAGTGCAGATCGTGCAACTGCTACCC	3540
Query	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACGGGGCGGAA	3600
Sbjct	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACGGGGCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCCCTGTACCTGCGGCT	3720

Query	3721	CCTCGGACCTTTACCTGGTGCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGGT	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTGCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGGT	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGCCATTCTCTACTTGAAGGCTCTCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGCCATTCTCTACTTGAAGGCTCTCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGACACGCCGTGGGCTATTACAGGCGCCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGACACGCCGTGGGCTATTACAGGCGCCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCACACCGGACGCGTAAGAGCACCAAGGTCCTCGGTCGCTACGACAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCACACCGGACGCGTAAGAGCACCAAGGTCCTCGGTCGCTACGACAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGTGTCGAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGTGTCGAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATACCA	4200
Sbjct	4141	ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATACCA	4200
Query	4201	CTGGCAGCCCATCAGCTACTCCACCTACGGCAAGTTCCCTTGCCGACGGCGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCATCAGCTACTCCACCTACGGCAAGTTCCCTTGCCGACGGCGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCTTGGGCATCAATGCCGTGGCTACTACCGCGGCTTGTACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCTTGGGCATCAATGCCGTGGCTACTACCGCGGCTTGTACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGCGATGTTGTGCTGTGTGACCGATGCTCTATGACTGGCTTTACCGGG	4680
Sbjct	4621	CGACCAGCGCGATGTTGTGCTGTGTGACCGATGCTCTATGACTGGCTTTACCGGG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGACCCGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACCGGACGGGGGAAGCCAGGCATCTATAGATTTGTGGACCCGGGGAGC	4860

Query	4861	GCCCTCCGGCAGTGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCTCCGGCAGTGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCAGCGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCAGCGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCCTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCCTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTGTTGATCCGCTTAAACCCACCTCCATGGGCGCAACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTGTTGATCCGCTTAAACCCACCTCCATGGGCGCAACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAAGATGAAGTACACCTGACGCACCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAAGATGAAGTACACCTGACGCACCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTGCGGCCGACCTGGAGTGTGTCACGAGCAGTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTGCGGCCGACCTGGAGTGTGTCACGAGCAGTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCCGGATTGCTGTCAACAGGCTGCGTGGTCAATAGTGGGACAGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCCGGATTGCTGTCAACAGGCTGCGTGGTCAATAGTGGGACAGATCG	5400
Query	5401	TCTTGTCGGGAAGCCGCGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCGGGAAGCCGCGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTCGCAGACCGCTCCCGCCATCGAGAGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTCGCAGACCGCTCCCGCCATCGAGAGTTATCA	5580
Query	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGGGTGGCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGGGTGGCGCTA	5820
Query	5821	CTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGCAGCGTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGCAGCGTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTGTAGCATTC	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTGTAGCATTC	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGACCTGGTCAATCTGCTGCCCGCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGACCTGGTCAATCTGCTGCCCGCATCC	6000

Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTG	6060
Query	6061	GCCCCGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Sbjct	6061	GCCCCGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Query	6121	ACCATGTTTCCCCCAGCAGCTACGTGCCGAGAGCGATGAGCCGCCCGCTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCAGCAGCTACGTGCCGAGAGCGATGAGCCGCCCGCTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGGCGCACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGGCGCACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTG	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTG	6360
Query	6361	CCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCTTAGGACCTCAGGAACATGTGGAGTGGGACGTTTCCCAATTAAACGCTACACCA	6540
Sbjct	6481	TCGGTCTTAGGACCTCAGGAACATGTGGAGTGGGACGTTTCCCAATTAAACGCTACACCA	6540
Query	6541	CGGGCCCTGTACTCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCTGTACTCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGAGCTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGAGCTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCATCGCCCGAATTTTTCACAGAAATGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCATCGCCCGAATTTTTCACAGAAATGGACG	6720
Query	6721	GGGTGCGCTACACAGGTTTTCGCGCCCTTGCAAGCCCTTGTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCTACACAGGTTTTCGCGCCCTTGCAAGCCCTTGTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACC CGGTGGGGTCGCAATTACCTTGCAGAGCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACC CGGTGGGGTCGCAATTACCTTGCAGAGCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGCGG	6900
Sbjct	6841	ACGTAGCCGTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGCGG	6900
Query	6901	GGAGAAGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACTCCTGTGGAGGCAGGAGATGGGCGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACTCCTGTGGAGGCAGGAGATGGGCGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140

Query	7141	AGGTCTCCGTACCTGCAGAAATTTCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTTCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGGCCGGAAGTACAAACCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCTGGGCGCGGCCGGAAGTACAAACCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACTGTGGTCCATGGCTGCCCGCTACCACTCCACGGTCCCTCTGTGCTCCCG	7320
Sbjct	7261	AACCACTGTGGTCCATGGCTGCCCGCTACCACTCCACGGTCCCTCTGTGCTCCCG	7320
Query	7321	CTCGGAAAAAGCTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCGGCGGAGCTCCGACGTTGAGTCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCGGCGGAGCTCCGACGTTGAGTCTATTCTT	7500
Query	7501	CCATGCGGCGGCTGGAGGGGAGGCTGGGGATCCGGATCTCAGCGACGGGTCAATGGTCA	7560
Sbjct	7501	CCATGCGGCGGCTGGAGGGGAGGCTGGGGATCCGGATCTCAGCGACGGGTCAATGGTCA	7560
Query	7561	CGGTAGTAGTGGGCGGACACGGAAGATGTCGTGTGCTGCTCAATGTCTATTCTCGA	7620
Sbjct	7561	CGGTAGTAGTGGGCGGACACGGAAGATGTCGTGTGCTGCTCAATGTCTATTCTCGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCCTTACGCGAGTGTCTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCCTTACGCGAGTGTCTGCC	7740
Query	7741	AAAGGCAGAGAAAGTACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAGC	7800
Sbjct	7741	AAAGGCAGAGAAAGTACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAGC	7800
Query	7801	TGCTCAAGGAGGTCAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGAGCCTGACGCGCCACATTACGCAAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGAGCCTGACGCGCCACATTACGCAAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGCCGTAGCCCATCACTCCGTGTGGAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGCCGTAGCCCATCACTCCGTGTGGAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAAGAGGTTTTCTGG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAAGAGGTTTTCTGG	8040
Query	8041	TTACGCTGTGAGAAGGGGGTGTGAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGG	8100
Sbjct	8041	TTACGCTGTGAGAAGGGGGTGTGAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCTCGGCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCTCGGCGTGA	8160
Query	8161	TGGGAAGCTCCTACGATTCCAATACTACCAAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGATTCCAATACTACCAAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280

Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAAGTGC GGCTACCGCAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAAGTGC GGCTACCGCAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Query	8461	CTAGCTGTGGTAAACCCCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTGAGCCGCGAG	8520
Sbjct	8461	CTAGCTGTGGTAAACCCCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTGAGCCGCGAG	8520
Query	8521	GGCTCCAGGACTGCACCATGTCTGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGTCTGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGCGAACCCTGAGAGCCTTACGAGGCTATGACCAGGTACT	8640
Query	8641	CCGCCCCCCCCGGGGGACCCCCACAACAGAAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCGGGGGACCCCCACAACAGAAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTGAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTGAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCCTACAACCCCTTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCCTACAACCCCTTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCTCATAGCCAGGATCAGCTTGAACAGGCTCTTAACGTGTGAGA	8940
Sbjct	8881	CCCATTTCTTTAGCGTCTCATAGCCAGGATCAGCTTGAACAGGCTCTTAACGTGTGAGA	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001	ATGGCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Query	9061	CATGGCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGGCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Query	9181	ACTGGGCGAGTAAGAACAAAGCTCAAACCTCACTCAATAGCGGGCCGTGGCCGGCTGGACT	9240
Sbjct	9181	ACTGGGCGAGTAAGAACAAAGCTCAAACCTCACTCAATAGCGGGCCGTGGCCGGCTGGACT	9240
Query	9241	TGTCGGTGTGTTTACGGCTGGCTACAGCGGGGAGACATTATACAGCGTGTCTCATG	9300
Sbjct	9241	TGTCGGTGTGTTTACGGCTGGCTACAGCGGGGAGACATTATACAGCGTGTCTCATG	9300
Query	9301	CCCGGCCCGCTGGTTCTGGTTTTTGCTACTCTGCTCGCTGACGGGTAGGCATCTACC	9360
Sbjct	9301	CCCGGCCCGCTGGTTCTGGTTTTTGCTACTCTGCTCGCTGACGGGTAGGCATCTACC	9360
Query	9361	TCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCTCTTAAGCCATTTCCTGTTT	9420
Sbjct	9361	TCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCTCTTAAGCCATTTCCTGTTT	9420

9/8/2009

Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCTCGTGTGCTCTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACCTTCTCGTGTGCTCTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGGCTGACTG	900
Query	901	TGCCCGCTTACGCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTACGCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAAGCTCAGATATTGTGTACGAGGCGGGCGATGCCATCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAAGCTCAGATATTGTGTACGAGGCGGGCGATGCCATCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCCTTCGCGAGGGTAACGCCTCGAGGTGTGTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCCTTCGCGAGGGTAACGCCTCGAGGTGTGTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CACACGAGGACGCGCAAACTCCCAACAACGAGCTTCGACGTCAATCGATCTGCTTGTGC	1140
Sbjct	1081	CACACGAGGACGCGCAAACTCCCAACAACGAGCTTCGACGTCAATCGATCTGCTTGTGC	1140
Query	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380
Sbjct	1321	CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTGCTATTGTGCGGCTCGACGCGGAAACCCAGC	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTGCTATTGTGCGGCTCGACGCGGAAACCCAGC	1500
Query	1501	TACCGGGGGAATGCGGGCGCACCAACGGCTGGGCTTGTGTGCTTCTTACACAGGGC	1560
Sbjct	1501	TACCGGGGGAATGCGGGCGCACCAACGGCTGGGCTTGTGTGCTTCTTACACAGGGC	1560
Query	1561	CCAAGCAGAACTCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
Sbjct	1561	CCAAGCAGAACTCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTACAGGCTGCTCTGAGAGGTTGGCCAGCTGCCGACGCCCTTACCGATTITGGCC	1740
Sbjct	1681	TCAACTCTTACAGGCTGCTCTGAGAGGTTGGCCAGCTGCCGACGCCCTTACCGATTITGGCC	1740
Query	1741	AGGGCTGGGGTCTCTATCAGTTATGCCAACGGAAGCGGCTTGCAGCAAGCGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTCTATCAGTTATGCCAACGGAAGCGGCTTGCAGCAAGCGCCCTACTGCT	1800
Query	1801	GGCACTACCTTCAAGACCTTGTGGCATTGTGCCCGAAAGAGCGTGTGTGGCCGGGTAT	1860
Sbjct	1801	GGCACTACCTTCAAGACCTTGTGGCATTGTGCCCGAAAGAGCGTGTGTGGCCGGGTAT	1860
Query	1861	ATTGCTTCACTCCCGGCCCGTGGTGGTGGGAACGACGAGGTCGGGCGCCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCGGCCCGTGGTGGTGGGAACGACGAGGTCGGGCGCCCTACCT	1920

Query	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCTTAAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCTTAAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACTCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACTCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTACGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTACGCCCGTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCTGCCAGCCTTGTTCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCTGCCAGCCTTGTTCA	2400
Query	2401	CGGGCTCATCCACCTTCCACAGAACATTGTGGACGTGCAGTACTTGTACGGGTAGGGT	2460
Sbjct	2401	CGGGCTCATCCACCTTCCACAGAACATTGTGGACGTGCAGTACTTGTACGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTTGGGCCATTAAAGTGGGAGTACGTGTTCTTCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTTGGGCCATTAAAGTGGGAGTACGTGTTCTTCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTGCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGCGG	2580
Sbjct	2521	CAGACGCGCGCTGCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCGGGACGACGGTCTTGTTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCGGGACGACGGTCTTGTTGT	2640
Query	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGTAAGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGTAAGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCTCTCCTCCTGCTCCTGCGGTGCGCTACGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCTCTCCTCCTGCTCCTGCGGTGCGCTACGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGCGGTGTTCTTGTGCGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGCGGTGTTCTTGTGCGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGTTGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGTTGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCGTCC	2940
Query	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCGACCTGGTATTG	3000
Sbjct	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCGACCTGGTATTG	3000
Query	3001	ACATACCAAACTACTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTC	3060
Sbjct	3001	ACATACCAAACTACTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTC	3060

Query	3061	TTAAAGTCCCTACTTCTCGTGC	CGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCTACTTCTCGTGC	CGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAAGTCAATTACGTG	CAAAATGGCCATCATCAAGTTAGGGGCGCTTACTTGGA	3180
Sbjct	3121	AGATAGCCGGAAGTCAATTACGTG	CAAAATGGCCATCATCAAGTTAGGGGCGCTTACTTGGA	3180
Query	3181	CCTATGTGTATAACCATCTCACC	CCCTCTTCGAGATCGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACC	CCCTCTTCGAGATCGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCACTCG	TCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCACTCG	TCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGGGTG	ACATCATCAACGGCTTGCCCGTCTCTGCCCCTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGGGTG	ACATCATCAACGGCTTGCCCGTCTCTGCCCCTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCC	CAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCC	CAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAG	CAGACGAGAGGGCCTCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAG	CAGACGAGAGGGCCTCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCA	AGTGGAGGGTGAAGTCCAGATCGTGTCACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCA	AGTGGAGGGTGAAGTCCAGATCGTGTCACTGCTACCC	3540
Query	3541	AAACCTTCTCTGGCAACGTGC	ATCAATGGGGTATGCTGGACTGTCTACACGGGGCGGAA	3600
Sbjct	3541	AAACCTTCTCTGGCAACGTGC	ATCAATGGGGTATGCTGGACTGTCTACACGGGGCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCA	AGGGTCTGTATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCA	AGGGTCTGTATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGTGGCCCGCTCT	CTCAAGGTTCCCGCTCATTTGACACCCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGTGGCCCGCTCT	CTCAAGGTTCCCGCTCATTTGACACCCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGT	CACGAGGCACGCCGATGTCATTCCTGTCGCCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGT	CACGAGGCACGCCGATGTCATTCCTGTCGCCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTT	CGCCCGGCCAATTCCTACTTGAAAGGCTTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTT	CGCCCGGCCAATTCCTACTTGAAAGGCTTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCGCGG	GACACGCCGTGGGCCTATTACGGGCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCGCGG	GACACGCCGTGGGCCTATTACGGGCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGG	ACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGG	ACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACA	AACTCCTCTCCACGACAGTGGCCACAGAGCTTCACAGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACA	AACTCCTCTCCACGACAGTGGCCACAGAGCTTCACAGTGGCCC	4020
Query	4021	ACCTGCATGCTCCACCGG	CAGCGGTAAAGAGCACCAAGGTCCTCCGCTGCGTACGAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCACCGG	CAGCGGTAAAGAGCACCAAGGTCCTCCGCTGCGTACGAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGT	GCTCAACCCCTCTGTTGTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGT	GCTCAACCCCTCTGTTGTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCATGGGG	TTGATCCTAATATCAGGACCGGGGTGAGAACCAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCATGGGG	TTGATCCTAATATCAGGACCGGGGTGAGAACCAATTACCA	4200

Query	4201	CTGGCAGCCCATCACGTACTCCACCTACGGCAAGTTCCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCATCACGTACTCCACCTACGGCAAGTTCCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCAGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCAGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCITTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCITTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGTCGCAATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGCTGTGATCC	4620
Sbjct	4561	TGTCGCAATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGCTGTGATCC	4620
Query	4621	GCACAGCGCGCATGTGTGTCGTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGCG	4680
Sbjct	4621	GCACAGCGCGCATGTGTGTCGTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCCTACCTTTTACATTGAGACAACACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCCTACCTTTTACATTGAGACAACACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGAGC	4860
Query	4861	GCCCCCTCCGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCAGGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCGG	4980
Sbjct	4921	GGTATGAGCTCAGGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGAGAACTTTCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGAGAACTTTCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCACCCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCACCCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAAGATGAAGTCACCTGACGCACCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAAGATGAAGTCACCTGACGCACCAATCACCAAATACATCATGA	5280
Query	5281	CATGATGTGCGCCGACCTGGAGTGTGTACGAGCACTGGGTGCTGTTGGCGGCTGC	5340
Sbjct	5281	CATGATGTGCGCCGACCTGGAGTGTGTACGAGCACTGGGTGCTGTTGGCGGCTGC	5340

Query	5341	TGGTGTCTTGGCCGCGTATTGCCGTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGTGTCTTGGCCGCGTATTGCCGTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGCGCAATTATACCTGCAGAGGAGGTTCTCTACCAAGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGCGCAATTATACCTGCAGAGGAGGTTCTCTACCAAGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCCGCTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCCGCTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCGTGCTGCAGACCAACTGGCAGAAACTCGAGGTCCTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCGTGCTGCAGACCAACTGGCAGAAACTCGAGGTCCTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAACTACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAACTACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTGGACTGGGGAAAG	5880
Sbjct	5821	CTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTGGACTGGGGAAAG	5880
Query	5881	TCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTGTAGCATTC	5940
Sbjct	5881	TCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTGTAGCATTC	5940
Query	5941	AGATCATGAGCGGTGAGGTCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATCTGCGCCGGCAGTTG	6060
Sbjct	6001	TCTCGCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATCTGCGCCGGCAGTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Query	6121	ACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGACGCCGCCCGGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGACGCCGCCCGGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTAACCATCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTAACCATCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTAAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTG	6360
Sbjct	6301	TGCTGAGCGACTTAAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTG	6360
Query	6361	CCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480

Query	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCTGTACTTCCCTTCTCGGCCGAACATAAGTTCGCGCTGTGGAGGGGTGCTGT	6600
Sbjct	6541	CGGGCCCTGTACTTCCCTTCTCGGCCGAACATAAGTTCGCGCTGTGGAGGGGTGCTGT	6600
Query	6601	CAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAAATGGAGC	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAAATGGAGC	6720
Query	6721	GGGTGCGCTACACAGGTTTGGCGCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCTACACAGGTTTGGCGCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTGCGAGCCGGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTGCGAGCCGGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCATGCTACTGATCCCTCCCATATAACAGCAGAGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCATGCTACTGATCCCTCCCATATAACAGCAGAGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTACCCCCCTTCTATGGCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTACCCCCCTTCTATGGCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CGGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CGGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGCTCCGTAACCTGCAGAAATTCGCGGAAGTCTCGGAGATTCCGCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGCTCCGTAACCTGCAGAAATTCGCGGAAGTCTCGGAGATTCCGCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGGGCCGCGACTACAACCCCCCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCTGGGCGGGCCGCGACTACAACCCCCCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCTCCCG	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCTCCCG	7320
Query	7321	CTCGAAAAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGAAAAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCGGGCATTACGGGGGACAAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCGGGCATTACGGGGGACAAATACGACAA	7440
Query	7441	CATCTCTGAGCCCGCCCTTCTGGCTGCGCCCGGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCTCTGAGCCCGCCCTTCTGGCTGCGCCCGGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGCGGGGGGAGGCTGGGGATCCGGATCTCAGCGACGGGTATGTCGTA	7560
Sbjct	7501	CCATGCGGGGGGAGGCTGGGGATCCGGATCTCAGCGACGGGTATGTCGTA	7560
Query	7561	CGGTGAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTTGA	7620
Sbjct	7561	CGGTGAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTTGA	7620

Query	7621	CAGGCGCACTCGTACCCCGTGCCTGCGGAAGAACAAAACTGCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTACCCCGTGCCTGCGGAAGAACAAAACTGCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAACTGGTGTATTCCACCACCTTCACGCAGTGCTTGGC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAACTGGTGTATTCCACCACCTTCACGCAGTGCTTGGC	7740
Query	7741	AAAGGCAGAGAAGATGACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAGC	7800
Sbjct	7741	AAAGGCAGAGAAGATGACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAGC	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGACGCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAG	7920
Sbjct	7861	AAGCTTGACGCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAG	7920
Query	7921	ACGTCCGTGTCATGCCAGAAAGCCGTAGGCCACATCAACTCCGTGTGGAAGACCTTC	7980
Sbjct	7921	ACGTCCGTGTCATGCCAGAAAGCCGTAGGCCACATCAACTCCGTGTGGAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTACGCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCTGTTTCCCGACCTGGGCG	8100
Sbjct	8041	TTACGCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCTGTTTCCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCGCTGGCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCGCTGGCGTGA	8160
Query	8161	TGGGAAGCTCCTACGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Query	8461	CTAGCTGTGGTAAACCCCTCACTTGTACATCAAGGCCCGGGCAGCCTGTGAGCCGCGAG	8520
Sbjct	8461	CTAGCTGTGGTAAACCCCTCACTTGTACATCAAGGCCCGGGCAGCCTGTGAGCCGCGAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGGAAGGCTATGACCAAGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGGAAGGCTATGACCAAGTACT	8640
Query	8641	CCGCCCCCCCCGGGAGGAGGACCAACAGAAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCGGGAGGAGGACCAACAGAAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCAACGTGTGCTGCGCCACGACGGCGCTGGAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCAACGTGTGCTGCGCCACGACGGCGCTGGAAGAGGGTCTACTACCTTACCCGTG	8760

Query	8761	ACCCCTACAACCCCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCCTACAACCCCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCTTTTAGCGTCTCATAGCCAGGGATCAGCTTGAAACAGGCTCTTAACGTGTAGA	8940
Sbjct	8881	CCCATTTCTTTTAGCGTCTCATAGCCAGGGATCAGCTTGAAACAGGCTCTTAACGTGTAGA	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Query	9061	CATGCTCAGAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCTCAGAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Query	9121	TCGCGCTAGGCTTCTGTCCAGAGGAGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCGCGCTAGGCTTCTGTCCAGAGGAGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Query	9181	ACTGGGCGTAGAACAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGCTGGACT	9240
Sbjct	9181	ACTGGGCGTAGAACAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGCTGGACT	9240
Query	9241	TGTCGGTGTGGTTACGGCTGGCTACAGCGGGGAGACATTATACAGCGTGTCTCATG	9300
Sbjct	9241	TGTCGGTGTGGTTACGGCTGGCTACAGCGGGGAGACATTATACAGCGTGTCTCATG	9300
Query	9301	CCCGGCCCGCTGGTTCTGGTTTTGCGTACTCTGCTCGTGCAGGGGTAGGCATCTACC	9360
Sbjct	9301	CCCGGCCCGCTGGTTCTGGTTTTGCGTACTCTGCTCGTGCAGGGGTAGGCATCTACC	9360
Query	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAG	9407
Sbjct	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAG	9407

Score = 366 bits (198), Expect = 2e-97
 Identities = 198/198 (100%), Gaps = 0/198 (0%)
 Strand=Plus/Plus

Query	9402	CTTAAGCCATTTCTCTG	9461
Sbjct	10606	CTTAAGCCATTTCTCTG	10665
Query	9462	CTTAAGCCATTTCTCTG	9521
Sbjct	10666	CTTAAGCCATTTCTCTG	10725
Query	9522	AGTCACGGCTAGCTGTGAAAGGTCCTGAGCCGATGACTGCAGAGAGTGTGATACCTGG	9581
Sbjct	10726	AGTCACGGCTAGCTGTGAAAGGTCCTGAGCCGATGACTGCAGAGAGTGTGATACCTGG	10785
Query	9582	CCTCTCTGCAGATCATGT	9599
Sbjct	10786	CCTCTCTGCAGATCATGT	10803

>gb|AR700053.1| Sequence 17 from patent US 6921634
 Length=10803

Sort alignments for this subject se
 E value Score Percent identity
 Query start position Subject sta

Score = 1.737e+04 bits (9407), Expect = 0.0

Identities = 9407/9407 (100%), Gaps = 0/9407 (0%)

Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCCTGTGAGGAACACTCTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCCTGTGAGGAACACTCTG	60
Query	61	TCTTCACGCAGAAAGCGCTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGCTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA	120
Query	121	ccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCTTTCTTTGGATAAACCCGCTCAATGCCCTGGAGATTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCTTTCTTTGGATAAACCCGCTCAATGCCCTGGAGATTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTGTGGTACTGCCGTATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTGTGGTACTGCCGTATAGG	300
Query	301	GTGCTTGCAGTGTCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCAGCAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGTGTCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCAGCAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCCCACAGGACGTCAAGTTCGCGGTG	420
Sbjct	361	CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCCCACAGGACGTCAAGTTCGCGGTG	420
Query	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTTCGAGGTAGACGTGAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTTCGAGGTAGACGTGAGCCTATCCCCA	540
Query	541	AGGCACGTCGCGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGCGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCGCGGTAGGTCGCGCAATTGGGTGAAGTTCATGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCGCGGTAGGTCGCGCAATTGGGTGAAGTTCATGATACCCCTTA	720
Query	721	CGTGCGGCTTCGCGGACCTCATGGGGTACATACCGCTCGTCGCGGCCCTCTTGGAGGGC	780
Sbjct	721	CGTGCGGCTTCGCGGACCTCATGGGGTACATACCGCTCGTCGCGGCCCTCTTGGAGGGC	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCCTGTTGCTCTTTCTCTATCTCTCTTCGGCCCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACCTTCCTGTTGCTCTTTCTCTATCTCTCTTCGGCCCTGCTCTCTTGGCTGACTG	900
Query	901	TGCCCGCTTCAGCTACCAAGTGCAGCAATTCTCGGGGCTTTACCATGTACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCTACCAAGTGCAGCAATTCTCGGGGCTTTACCATGTACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCCTTCGCGAGGGTAACGCCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCCTTCGCGAGGGTAACGCCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGACGCGAACTCCCCACAACGAGCTTCGACGTCATATCATGATCTGCTTGTGC	1140

Sbjct	1081	CCACAGGAGACGGCAAACTCCCCAACACGACGCTTCGACGTCATATCGATCTGCTTGTGCG	1140
Query	1141	GGAGGCGCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTTCTTG	1200
Sbjct	1141	GGAGGCGCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTTCATCGCATGGCATGGGATATGATGATGAAGTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTTCATCGCATGGCATGGGATATGATGATGAAGTGGT	1320
Query	1321	CCCCACGCGACGCTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCACGCGACGCTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTACTGGGGAGTCTTGGCGGGCATAGCGTATTTCCTCATGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTACTGGGGAGTCTTGGCGGGCATAGCGTATTTCCTCATGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCTCGGTAGTGTCTGCTGCTATTGGCGGGCTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCTCGGTAGTGTCTGCTGCTATTGGCGGGCTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCGGGCCGACACAGCGCTGGGCTTGTTGGTCTCCTTACACAGGCG	1560
Sbjct	1501	TCACCGGGGGAAATGCGGGCCGACACAGCGCTGGGCTTGTTGGTCTCCTTACACAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAAACACCGGTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAAACACCGGTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGTAGAGGTTGGCCAGCTGCCGACGCCCTTACGATTGTGCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGTAGAGGTTGGCCAGCTGCCGACGCCCTTACGATTGTGCC	1740
Query	1741	AGGGCTGGGGTCTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCTCCAAGACCTTGTGGCATGTGCCCCGAAAGAGCGTGTGTGCCCGGTAT	1860
Sbjct	1801	GGCACTACCTCCAAGACCTTGTGGCATGTGCCCCGAAAGAGCGTGTGTGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCAGCCCGGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCAGCCCGGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAAACAACACAGGCCACCGTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAAACAACACAGGCCACCGTGG	1980
Query	1981	GCAATTGGTTGGTGTGACTCGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTGGTGTGACTCGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTGATCGGAGGGGTGGGCAACACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTGATCGGAGGGGTGGGCAACACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACTCCGAAGCCACATACCTCTCGGTGGGCTCGGTCCTGGATTACACCAAGT	2160
Sbjct	2101	GCAAACTCCGAAGCCACATACCTCTCGGTGGGCTCGGTCCTGGATTACACCAAGT	2160
Query	2161	GCATGTGCACTACCCGTATAGGCTTTGGCACTATCCTTTGACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGTGCACTACCCGTATAGGCTTTGGCACTATCCTTTGACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGACACAGGCTGGAAGCGGCTGCAACTGGA	2280

Sbjct	2221		2280
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Sbjct	2281		2340
Query	2341		2400
Sbjct	2341		2400
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Query	2461		2520
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Query	2521		2580
Sbjct	2521		2580
Query	2581		2640
Sbjct	2581		2640
Query	2641		2700
Sbjct	2641		2700
Query	2701		2760
Sbjct	2701		2760
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Query	2821		2880
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Query	2881		2940
Sbjct	2881		2940
Query	2941		3000
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Query	3001		3060
Sbjct	3001		3060
Query	3061		3120
Sbjct	3061		3120
Query	3121		3180
Sbjct	3121		3180
Query	3181		3240
Sbjct	3181		3240
Query	3241		3300
Sbjct	3241		3300
Query	3301		3360
Sbjct	3301		3360
Query	3361		3420

Sbjct	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGGCTCTTAGGGTGTATAATCACACGAC	3480
Sbjct	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGGCTCTTAGGGTGTATAATCACACGAC	3480
Query	3481		TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481		TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCAGATCGTGTCAACTGCTACCC	3540
Query	3541		AAACCTTCTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACGGGGCCGGAA	3600
Sbjct	3541		AAACCTTCTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACGGGGCCGGAA	3600
Query	3601		CGAGGACCATCGCATACCCCAAGGGTCTGTGTCATCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601		CGAGGACCATCGCATACCCCAAGGGTCTGTGTCATCAGATGTATACCAATGTGGACCAAG	3660
Query	3661		ACCTTGTGGGGTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCCGTACCTGCGGGT	3720
Sbjct	3661		ACCTTGTGGGGTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCCGTACCTGCGGGT	3720
Query	3721		CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCTTCCCGTGCGCCGCCGAGGTG	3780
Sbjct	3721		CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCTTCCCGTGCGCCGCCGAGGTG	3780
Query	3781		ATAGCAGGGGTAGCCTGCTTTCGCCCCGCGCCATTCTACTTTGAAAGGCTCTCGGGGG	3840
Sbjct	3781		ATAGCAGGGGTAGCCTGCTTTCGCCCCGCGCCATTCTACTTTGAAAGGCTCTCGGGGG	3840
Query	3841		GTCCGCTGTGTGTCGCCCGCGGACACGCCGTGGGCTATTACGGGCCCGGTGTGCACCC	3900
Sbjct	3841		GTCCGCTGTGTGTCGCCCGCGGACACGCCGTGGGCTATTACGGGCCCGGTGTGCACCC	3900
Query	3901		GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901		GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961		CCCCGGTGTTACGGGACAACCTCTCTCCACCAGCAGTCCCCAGAGCTTCCAGTGGCCC	4020
Sbjct	3961		CCCCGGTGTTACGGGACAACCTCTCTCCACCAGCAGTCCCCAGAGCTTCCAGTGGCCC	4020
Query	4021		ACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021		ACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081		AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTGTGTCGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081		AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTGTGTCGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141		ACATGTCCAAGGCCATGCGGTTGATCCTAATATCAGGACCGGGGTGAGACAATTACCA	4200
Sbjct	4141		ACATGTCCAAGGCCATGCGGTTGATCCTAATATCAGGACCGGGGTGAGACAATTACCA	4200
Query	4201		CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201		CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261		GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261		GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321		TGGGATCGGCACGTGCTTGACCAAGCAGAGACTGCGGGGGCAGAGACTGGTGTGCTCG	4380
Sbjct	4321		TGGGATCGGCACGTGCTTGACCAAGCAGAGACTGCGGGGGCAGAGACTGGTGTGCTCG	4380
Query	4381		CCACTGTACTACCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGTTGCTC	4440
Sbjct	4381		CCACTGTACTACCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGTTGCTC	4440
Query	4441		TGTCCACCACCGGAGAGATCCCCCTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441		TGTCCACCACCGGAGAGATCCCCCTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501		GGGGAAGACATCTCATCTTCTGCCACTCAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560

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Sbjct  4501  GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGTGCACGAGCTCGCCGCGAAGC 4560
Query  4561  TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCC 4620
Sbjct  4561  TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCC 4620
Query  4621  CGACCAGCGGCGATGTTGTCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGC 4680
Sbjct  4621  CGACCAGCGGCGATGTTGTCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGC 4680
Query  4681  ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG 4740
Sbjct  4681  ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG 4740
Query  4741  ACCCTACCTTTTACCACTTGAGACAACACCGCTCCCCAGGATGCTGTCTCCAGGACTCAAC 4800
Sbjct  4741  ACCCTACCTTTTACCACTTGAGACAACACCGCTCCCCAGGATGCTGTCTCCAGGACTCAAC 4800
Query  4801  GCCGGGGCAGGACTGCGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGGAGC 4860
Sbjct  4801  GCCGGGGCAGGACTGCGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGGAGC 4860
Query  4861  GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT 4920
Sbjct  4861  GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT 4920
Query  4921  GGTATGAGCTCAGCCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG 4980
Sbjct  4921  GGTATGAGCTCAGCCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG 4980
Query  4981  GGCCTCCCGTGTCGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTTACGGGCTCACTC 5040
Sbjct  4981  GGCCTCCCGTGTCGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTTACGGGCTCACTC 5040
Query  5041  ATATAGATGCCCACTTTTATCCAGACAAGACAGAGTGGGGAGAACTTTCCTTACCTGG 5100
Sbjct  5041  ATATAGATGCCCACTTTTATCCAGACAAGACAGAGTGGGGAGAACTTTCCTTACCTGG 5100
Query  5101  TAGCGTACCAAGCACCCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA 5160
Sbjct  5101  TAGCGTACCAAGCACCCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA 5160
Query  5161  TGTGGAAGTGTTTGATCCGCCCTTAAACCCACCCCTCCATGGGGCAACACCCCTGCTATACA 5220
Sbjct  5161  TGTGGAAGTGTTTGATCCGCCCTTAAACCCACCCCTCCATGGGGCAACACCCCTGCTATACA 5220
Query  5221  GACTGGGCGCTGTTTCAAGATGAAGTCACCTGACGCACCCAATCACCAAAATACATCATGA 5280
Sbjct  5221  GACTGGGCGCTGTTTCAAGATGAAGTCACCTGACGCACCCAATCACCAAAATACATCATGA 5280
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Sbjct  5281  CATGCATGTCGGCCGACCTGGAGGTCGTACAGGACCTGGGTGCTCGTTGGCGGCGTCC 5340
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Sbjct  5341  TGGCTGCTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCAATAGTGGGAGGATCG 5400
Query  5401  TCTTGTCGGGAAGCGCGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG 5460
Sbjct  5401  TCTTGTCGGGAAGCGCGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG 5460
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Sbjct  5461  AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCAGCAAGGAGTATGCTCGCTGAGC 5520
Query  5521  AGTTCAAGCAGAAGGCCCTCGGCCTCTCGACACCGCGTCCC GCCATCGAGAGGTTATCA 5580
Sbjct  5521  AGTTCAAGCAGAAGGCCCTCGGCCTCTCGACACCGCGTCCC GCCATCGAGAGGTTATCA 5580
Query  5581  CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGA 5640
Sbjct  5581  CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGA 5640
Query  5641  ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA 5700
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Sbjct 5641 |ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA| 5700
Query 5701 |TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCAGTGGCCAAACCC| 5760
Sbjct 5701 |TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCAGTGGCCAAACCC| 5760
Query 5761 |TCCTCTTCAACATATTggggggTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA| 5820
Sbjct 5761 |TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA| 5820
Query 5821 |CTGCCCTTTTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG| 5880
Sbjct 5821 |CTGCCCTTTTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG| 5880
Query 5881 |TCTCGTGAGCAATCTTGCAGGGTATGGCGGGGGCTGGCGGGAGCTCTTGTAGCATTCA| 5940
Sbjct 5881 |TCTCGTGAGCAATCTTGCAGGGTATGGCGGGGGCTGGCGGGAGCTCTTGTAGCATTCA| 5940
Query 5941 |AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCGCCATCC| 6000
Sbjct 5941 |AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCGCCATCC| 6000
Query 6001 |TCTGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTG| 6060
Sbjct 6001 |TCTGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTG| 6060
Query 6061 |GCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA| 6120
Sbjct 6061 |GCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA| 6120
Query 6121 |ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGACGCCGCCCGGTCACTGCCA| 6180
Sbjct 6121 |ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGACGCCGCCCGGTCACTGCCA| 6180
Query 6181 |TACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGGCACATGCATCAGTGGATAAGCTCGG| 6240
Sbjct 6181 |TACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGGCACATGCATCAGTGGATAAGCTCGG| 6240
Query 6241 |AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG| 6300
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Query 6301 |TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT| 6360
Sbjct 6301 |TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT| 6360
Query 6361 |CCTTTGTGCTCGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA| 6420
Sbjct 6361 |CCTTTGTGCTCGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA| 6420
Query 6421 |CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG| 6480
Sbjct 6421 |CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG| 6480
Query 6481 |TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCA| 6540
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Query 6541 |CGGGCCCCGTGACTCCCTTCTGCGCCGAACATAAGTTGCGGCTGTGGAGGGTGTCTG| 6600
Sbjct 6541 |CGGGCCCCGTGACTCCCTTCTGCGCCGAACATAAGTTGCGGCTGTGGAGGGTGTCTG| 6600
Query 6601 |CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA| 6660
Sbjct 6601 |CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA| 6660
Query 6661 |CTGACAATCTTAAATGCCGTGCCAGATCCATCGCCCGAATTTTTCACAGAAITGGAGC| 6720
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Query 6721 |GGGTGCGCTACACAGGTTTGGCGCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT| 6780
Sbjct 6721 |GGGTGCGCTACACAGGTTTGGCGCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT| 6780
Query 6781 |TCAGAGTAGGACTCCACGAGTACCCGGTGGGTGCGCAATTACCTTGCGAGCCCAACCGG| 6840
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Query  6901  |||
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Sbjct  6901  |||
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Query  6961  |||
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Query  7261  |||
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Query  7321  |||
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Sbjct  7321  |||
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Query  7381  |||
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Query  7441  |||
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Sbjct  7441  |||
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Query  7501  |||
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Query  7561  |||
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Query  7621  |||
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Sbjct  7621  |||
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Query  7741  |||
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Query  7801  |||
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Query  7921  |||
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Sbjct	7921	ACGTCGGTGGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAAGACAGGTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAAGACAGGTTTCTGCG	8040
Query	8041	TTAGCCTGAGAAGGGGGTCTGAAGCAGCTCGTCTCATCGTGTCCCCGACCTGGGCG	8100
Sbjct	8041	TTAGCCTGAGAAGGGGGTCTGAAGCAGCTCGTCTCATCGTGTCCCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTGAATTCCTCGTGAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTGAATTCCTCGTGAAG	8220
Query	8221	CGTGGAAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTGACTCCA	8280
Sbjct	8221	CGTGGAAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACCTCGCGTACCAGCAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACCTCGCGTACCAGCAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Query	8461	CTAGCTGTGGTGAACCCCTCACTTGCTACATCAAGGCCGCGGCAGCCTGTCGAGCCGAC	8520
Sbjct	8461	CTAGCTGTGGTGAACCCCTCACTTGCTACATCAAGGCCGCGGCAGCCTGTCGAGCCGAC	8520
Query	8521	GGCTCAGGACTGCACCATGCTCGTGTGGCGACGACTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCAGGACTGCACCATGCTCGTGTGGCGACGACTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGAGGCTATGACCAGGTACT	8640
Query	8641	CCGCCCCCCCCGGGGGACCCCAACAGAAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCGGGGGACCCCAACAGAAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCTACAACCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCTACAACCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCTCCACACTGTGGGCGAGGATGATACGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCTCCACACTGTGGGCGAGGATGATACGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCTCATAGCCAGGATCAGCTTGAACAGGCTCTTAACGTGAGA	8940
Sbjct	8881	CCCATTTCTTTAGCGTCTCATAGCCAGGATCAGCTTGAACAGGCTCTTAACGTGAGA	8940
Query	8941	TCTACGGAGCGTCTACTCCATAGAACCACTGATCTACCTTCAAATCATCAAGACTCC	9000
Sbjct	8941	TCTACGGAGCGTCTACTCCATAGAACCACTGATCTACCTTCAAATCATCAAGACTCC	9000
Query	9001	ATGGCTCAGGCGATTTTCACTCCAGTTACTCTCAGGTGAAATCAATAGGTTGGCCG	9060
Sbjct	9001	ATGGCTCAGGCGATTTTCACTCCAGTTACTCTCAGGTGAAATCAATAGGTTGGCCG	9060
Query	9061	CATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGACTTGGAGACACCGGGCCGAGCG	9120

Query	301	GTGCTTGCAGTGCCTCGGGAGGCTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGTGCCTCGGGAGGCTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCTGGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCTGGGGTG	420
Query	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Query	541	AGGCACGTTCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGTACCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTTCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGTACCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA	720
Query	721	CGTGGCGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCCCTCTGGAGGGC	780
Sbjct	721	CGTGGCGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCCCTCTGGAGGGC	780
Query	781	CTGCCAGGGCCCTGGGCGCATGGCGTCCGGGTTCTGGGAAGCGCGGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGGCGCATGGCGTCCGGGTTCTGGGAAGCGCGGTGAACATGCAACAG	840
Query	841	GGAACCTTCCIGGTTGCTCTTTCTCTATCTTCTTCTGGGCCCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACCTTCCIGGTTGCTCTTTCTCTATCTTCTTCTGGGCCCTGCTCTCTTGGCTGACTG	900
Query	901	TGCCCGCTTACGCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTACGCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAATCGAGTATTGTGTACGAGGCGGCCGATGCCATCTCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAATCGAGTATTGTGTACGAGGCGGCCGATGCCATCTCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCTTTCGCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCTTTCGCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Sbjct	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Query	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACGTGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACGTGT	1320
Query	1321	CCCCTACGCGAGCGTTGGTGGTAGCTCAGCTGCTCCGATCCCAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGCGAGCGTTGGTGGTAGCTCAGCTGCTCCGATCCCAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGA	1440

Query	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTATTTGCCGGCGTCGACGCGGAAACCCAGC	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTATTTGCCGGCGTCGACGCGGAAACCCAGC	1500
Query	1501	TCACCGGGGAAATGCCGGCCGACACCGGCTGGGCTTGTGTGCTTCCTTACACGAGGG	1560
Sbjct	1501	TCACCGGGGAAATGCCGGCCGACACCGGCTGGGCTTGTGTGCTTCCTTACACGAGGG	1560
Query	1561	CCAAGCAGAACTCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
Sbjct	1561	CCAAGCAGAACTCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCAGCCCTTACCGATTITGGCC	1740
Sbjct	1681	TCAACTCTTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCAGCCCTTACCGATTITGGCC	1740
Query	1741	AGGGCTGGGGTCCATATCAGTTATGCCAACGGAAGCGGCTTCGACGAACGCCCTTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCATATCAGTTATGCCAACGGAAGCGGCTTCGACGAACGCCCTTACTGCT	1800
Query	1801	GGCACTACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGCTTAAACAACACGAGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGCTTAAACAACACGAGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAATCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAATCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACTCCGGAAGCCACATACCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACTCCGGAAGCCACATACCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCGGTATAGGCTTTGGCAGTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCGGTATAGGCTTTGGCAGTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGGCTGGAAGCGGCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCCACACACAGTGGCAGGTCTCTCCGTGTTCTTACGACCCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGTCCACACACAGTGGCAGGTCTCTCCGTGTTCTTACGACCCCTGCCAGCCTTGTTCCA	2400
Query	2401	CGGGCTCATCCACTTCCACAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CGGGCTCATCCACTTCCACAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGGCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCTTG	2520
Sbjct	2461	CAAGCATCGGCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCTTG	2520
Query	2521	CAGACGCGCGCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580

Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGCTTGTGT	2640
Query	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGGAGCGG	2700
Sbjct	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCTCTGCTCCTGCTGGCGTGTGCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCTCTGCTCCTGCTGGCGTGTGCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCGTCC	2940
Query	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCTTGGTATTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCTTGGTATTG	3000
Query	3001	ACATACCAAACCTACTCTTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTC	3060
Sbjct	3001	ACATACCAAACCTACTCTTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAAGGCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAAGGCTGCGAGATC	3240
Query	3241	TGGCGTGGCTGTGGAACCACTCGTCTTCTCCGAATGGAGACCAAGCTCATCAGTGGG	3300
Sbjct	3241	TGGCGTGGCTGTGGAACCACTCGTCTTCTCCGAATGGAGACCAAGCTCATCAGTGGG	3300
Query	3301	GGCAGATACGCCCGGTGCGGTGACATCATCAACGGCTTGGCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGCAGATACGCCCGGTGCGGTGACATCATCAACGGCTTGGCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCAAGGGGTGGAGGTGTCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCAAGGGGTGGAGGTGTCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAACCAAGTGGAGGGTAGGTTCCAGATCGTGCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAACCAAGTGGAGGGTAGGTTCCAGATCGTGCAACTGCTACCC	3540
Query	3541	AAACCTTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACGGGGCGGAA	3600
Sbjct	3541	AAACCTTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACGGGGCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGTGGCCCGCTCCTCAAGTTCCCGCTATTGACACCCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGTGGCCCGCTCCTCAAGTTCCCGCTATTGACACCCCTGTACCTGCGGCT	3720

Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGC	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGC	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGCCATTCTCTACTTGAAGGCTCTCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGCCATTCTCTACTTGAAGGCTCTCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGACACGCCGTGGGCTATTACAGGCGCCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGTGCCCCGCGGACACGCCGTGGGCTATTACAGGCGCCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCACACCGGACGCGTAAGAGCACCAAGGTC	4080
Sbjct	4021	ACCTGCATGCTCCACACCGGACGCGTAAGAGCACCAAGGTC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGTCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGTCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATACCA	4200
Sbjct	4141	ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATACCA	4200
Query	4201	CTGGCAGCCCATCAGCTACTCCACCTACGGCAAGTTCTTCTGCCAGCGGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCATCAGCTACTCCACCTACGGCAAGTTCTTCTGCCAGCGGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCAGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCAGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACGTGTGCCATCTTAACATCGAGGAGGTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACGTGTGCCATCTTAACATCGAGGAGGTGCTC	4440
Query	4441	TGTCACCAACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCACCAACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCTTGGGCATCAATGCCGTGGCTACTACCGCGGCTCTTGACGTGTCTGTGATCC	4620
Sbjct	4561	TGGTCGCTTGGGCATCAATGCCGTGGCTACTACCGCGGCTCTTGACGTGTCTGTGATCC	4620
Query	4621	CGACCAGCGCGATGTTGTGCTGTGTGACCGATGCTCTATGACTGGCTTTACCGGG	4680
Sbjct	4621	CGACCAGCGCGATGTTGTGCTGTGTGACCGATGCTCTATGACTGGCTTTACCGGG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGACCCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGACCCGGGGGAGC	4860

Query	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCAGCGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCAGCGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCCTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCCTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGTATCCGCTTAAACCCACCTCCATGGGCGCAACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGTATCCGCTTAAACCCACCTCCATGGGCGCAACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAAGATGAAGTACACCTGACGCACCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAAGATGAAGTACACCTGACGCACCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTGCGCCGACCTGGAGTGTGTCACGAGCAGCTGGGTGCTCGTTGGCGCGGTCC	5340
Sbjct	5281	CATGCATGTGCGCCGACCTGGAGTGTGTCACGAGCAGCTGGGTGCTCGTTGGCGCGGTCC	5340
Query	5341	TGGCTGCTCTGGCCCGGTATTGCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCCGGTATTGCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCGGGAAGCCGCGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCGGGAAGCCGCGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTCGAGACCGCTCCCGCCATGCAAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTCGAGACCGCTCCCGCCATGCAAGGTTATCA	5580
Query	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCGCTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCGCTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGGGTGGCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGGGTGGCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCTAGCTGGCGCGCCATCGCAGCGTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTGTGGGTGCTGGCTAGCTGGCGCGCCATCGCAGCGTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTGTAGCATTC	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTGTAGCATTC	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCATCC	6000

Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTG	6060
Query	6061	GCCCCGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Sbjct	6061	GCCCCGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Query	6121	ACCATGTTTCCCCCAGCAGCTACGTGCCGAGAGCGATGAGCCGCCCGCTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCAGCAGCTACGTGCCGAGAGCGATGAGCCGCCCGCTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGGCGCACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGGCGCACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTG	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTG	6360
Query	6361	CCTTTGTGTCTCGCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTCGCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCTTAGGACCTCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCA	6540
Sbjct	6481	TCGGTCTTAGGACCTCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCA	6540
Query	6541	CGGGCCCCGTGATCCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGATCCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGAGCTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGAGCTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCATCGCCCGAATTTTTCACAGAAATGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCATCGCCCGAATTTTTCACAGAAATGGACG	6720
Query	6721	GGGTGCGCTACACAGGTTTGCGCCCTTGCAAGCCCTTGTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCTACACAGGTTTGCGCCCTTGCAAGCCCTTGTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACC CGGTGGGGTCGCAATTACCTTGCAGGCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACC CGGTGGGGTCGCAATTACCTTGCAGGCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGCCG	6900
Query	6901	GGAGAAGGTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAAACCTCCTGTGGAGGCAGGAGATGGGCGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAAACCTCCTGTGGAGGCAGGAGATGGGCGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140

Query	7141	AGGTCTCCGTACCTGCAGAAATTTCTCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCCGACAGAAATTTCTCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGGCCGCGACTACAACCCCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TTTGGGCGCGGCCGCGACTACAACCCCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCGC	7320
Query	7321	CTCGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGCCCCCGCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAATGGTCGA	7560
Sbjct	7501	CCATGCCCCCGCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAATGGTCGA	7560
Query	7561	CGGTAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561	CGGTAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Query	7621	CAGGCGCACTCGTCAACCCGTCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCAACCCGTCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGATTTCACCACTTCACGCACTGCTTGGC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGATTTCACCACTTCACGCACTGCTTGGC	7740
Query	7741	AAAGGCAGAGAAGTACATTGACAGACTGCAAGTCTCGACAGCCATTACCAGGAGC	7800
Sbjct	7741	AAAGGCAGAGAAGTACATTGACAGACTGCAAGTCTCGACAGCCATTACCAGGAGC	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCAATCAACTCCGTGTGGAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCAATCAACTCCGTGTGGAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAAGAGGTTTTCTGGC	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAAGAGGTTTTCTGGC	8040
Query	8041	TTACGCGCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGG	8100
Sbjct	8041	TTACGCGCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280

Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAAGTGGGCTACCGCAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAAGTGGGCTACCGCAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Query	8461	CTAGCTGTGGTAAACCCCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTGAGCCGCGAG	8520
Sbjct	8461	CTAGCTGTGGTAAACCCCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTGAGCCGCGAG	8520
Query	8521	GGCTCCAGGACTGCACCATGTCTGCTGTGTGGCGCAGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGTCTGCTGTGTGGCGCAGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGAGGCTATGACCAAGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGAGGCTATGACCAAGTACT	8640
Query	8641	CCGCCCCCCCCGGGGGACCCCCACAACAGAAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCGGGGGACCCCCACAACAGAAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTGAGTCGCCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTGAGTCGCCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCCTACAACCCCTTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCCTACAACCCCTTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCTCATAGCCAGGATCAGCTTGAACAGGCTCTTAACGTGTGAGA	8940
Sbjct	8881	CCCATTTCTTTAGCGTCTCATAGCCAGGATCAGCTTGAACAGGCTCTTAACGTGTGAGA	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001	ATGGCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Query	9061	CATGCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Query	9181	ACTGGGCGAGTAAAGCAAAAGCTCAAACCTCACTCAATAGCGGGCCGTGGCCGGCTGGACT	9240
Sbjct	9181	ACTGGGCGAGTAAAGCAAAAGCTCAAACCTCACTCAATAGCGGGCCGTGGCCGGCTGGACT	9240
Query	9241	TGTCGGTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATACAGCGTGTCTCATG	9300
Sbjct	9241	TGTCGGTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATACAGCGTGTCTCATG	9300
Query	9301	CCCGGCCCGCTGGTTCTGGTTTTGGCTACTCTGCTCGCTGACGGGTAGGCATCTACC	9360
Sbjct	9301	CCCGGCCCGCTGGTTCTGGTTTTGGCTACTCTGCTCGCTGACGGGTAGGCATCTACC	9360
Query	9361	TCTCCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCTCTTAAGCCATTTCCTG	9420
Sbjct	9361	TCTCCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCTCTTAAGCCATTTCCTG	9420

Score = 285 bits (154), Expect = 6e-73
Identities = 177/187 (94%), Gaps = 6/187 (3%)
Strand=Plus/Plus

>**dbj|DL487744.1|** FUNCTIONAL DNA CLONE FOR HEPATITIS C VIRUS (HCV) AND USES THEREOF
Length=9646

Sort alignments for this subject sequence

E value	Score	Percent identity	Query start position	Subject start position
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Score = 1.732e+04 bits (9379), Expect = 0.0
Identities = 9459/9498 (99%), Gaps = 3/9498 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACATCCACCATGAATCACTCCCCTGTGAGGAACACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACATCCACCATGAATCACTCCCCTGTGAGGAACACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCCTCCAGGAC	120
Query	121	ccccctTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGC	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGC	180
Query	181	GACGACCGGGTCTTTCTTGATAAAACCGCTCAATGCTGGAGATTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCTTTCTTGATAAAACCGCTCAATGCTGGAGATTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCCTTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCCTTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGGAATCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGGAATCTAAAC	360
Query	361	CTCAAGAAAAAACCAACGTAACCAACCGTCGCCACAGGACGTCAAGTTC	420
Sbjct	361	CTCAAGAAAAAACCAACGTAACCAACCGTCGCCACAGGACGTCAAGTTC	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTACTTGTTGCCGCGAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTACTTGTTGCCGCGAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCGAGCGGTGCGAACCTCGAGGTAGAGCTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCGAGCGGTGCGAACCTCGAGGTAGAGCTCAGCCTATCCCCA	540

Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA	720
Query	721	CTGTCGGCTTCGCGGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGGC	780
Sbjct	721	CTGTCGGCTTCGCGGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGGC	780
Query	781	CTGCCAGGGCCCTTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACTCTCCGTGTGCTCTTCTCTATCTCCTTCTGGCCCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACTCTCCGTGTGCTCTTCTCTATCTCCTTCTGGCCCTGCTCTCTTGGCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGCGGGCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGCGGGCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCTTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCTTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTTGTG	1140
Sbjct	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTTGTG	1140
Query	1141	GGAGCGCCACCCCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTTCATCGCATGGCATGGGATATGATGATGAACGTGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTTCATCGCATGGCATGGGATATGATGATGAACGTGT	1320
Query	1321	CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380
Sbjct	1321	CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGA	1440
Query	1441	ACTGGGCGAAGGTCTGGTAGTGTGCTGCTATTGTCGGCGCTGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCTGGTAGTGTGCTGCTATTGTCGGCGCTGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGAAATGCCGGCCGACACGGCTGGGCTTGTGTGCTCCCTTACACAGGGC	1560
Sbjct	1501	TCACCGGGGAAATGCCGGCCGACACGGCTGGGCTTGTGTGCTCCCTTACACAGGGC	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680

Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCATATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCATATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTTACTGCT	1800
Query	1801	GGCACTACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACCTCCAGCCCGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACCTCCAGCCCGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCCTTAACAACACAGGCGACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCCTTAACAACACAGGCGACCGCTGG	1980
Query	1981	GCAATTGGTTCGTTGTACCTGGATGAACCAACTGGATTACCAAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGTTGTACCTGGATGAACCAACTGGATTACCAAAAGTGTGCGGAGCGC	2040
Query	2041	CCCTTGTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCTTGTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAACATCCGGAAGCCACATATCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAACATCCGGAAGCCACATATCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGCAGGCTGGAAGCGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGCAGGCTGGAAGCGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTGTCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTGTCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCTTCCGTGTTCTTTCACGACCCCTGCCAGCCTTGTTCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCTTCCGTGTTCTTTCACGACCCCTGCCAGCCTTGTTCA	2400
Query	2401	CGGGCTCATCCACTTCCACAGAACATTGTGGACGTGAGTACTTGTACGGGTAGGGT	2460
Sbjct	2401	CGGGCTCATCCACTTCCACAGAACATTGTGGACGTGAGTACTTGTACGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTGGGCCATTAAAGTGGGAGTACGTGTTCTCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTGGGCCATTAAAGTGGGAGTACGTGTTCTCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTGTCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTGTCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCGGGAGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCGGGAGCACGGTCTTGTGT	2640
Query	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGGAGCGG	2700
Sbjct	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGGAGCGG	2700
Query	2701	TCTACGCCCTTACGGGATGTGGCCCTCTCTCTGCTCTGCTGGCGTGGCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTTACGGGATGTGGCCCTCTCTCTGCTCTGCTGGCGTGGCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGTGCGGCGTGTCTTGTGCGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGTGCGGCGTGTCTTGTGCGGTTAA	2820

Query	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTACATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCCCTCAACGCTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCCCTCAACGCTCC	2940
Query	2941	GGGGGGGCGCGATGCGGTCATCTTACTCATGTGTGTAGTACACCCGACCTGGTATTG	3000
Sbjct	2941	GGGGGGGCGCGATGCGGTCATCTTACTCATGTGTGTAGTACACCCGACTCTGGTATTG	3000
Query	3001	ACATCACCAACTACTCTGCGCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAACTACTCTGCGCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCTACTTCTGTCGCGTTCAAGGCCCTTCTCCGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCTACTTCTGTCGCGTTCAAGGCCCTTCTCCGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAGATC	3240
Query	3241	TGGCGTGGCTGTGGAACCACTGCTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCGTGGCTGTGGAACCACTGCTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGCAGATACGCGCGGTGCGGTGACATCATCAACGGCTTGCCTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGCAGATACGCGCGGTGCGGTGACATCATCAACGGCTTGCCTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTGTCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTGTCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTTAGGGTGTATAATCACAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTTAGGGTGTATAATCACAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGCAACTGCTACCC	3540
Query	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACAGGGGCCGAA	3600
Sbjct	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACAGGGGCCGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGTGGCCCGCTCCTCAAGGTTCCCGCTCATTTGACACCCCTGACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGTGGCCCGCTCCTCAAGGTTCCCGCTCATTTGACACCCCTGACCTGCGGCT	3720
Query	3721	CCTCGGACCTTACCTGGTACGAGGACGCGGATGTGCTTCCCGTGGCGCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTACCTGGTACGAGGACGCGGATGTGCTTCCCGTGGCGCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCAATTCTACTTGAAAGGCTTCCTGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCAATTCTACTTGAAAGGCTTCCTGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCCTATTACGGGCCCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCCTATTACGGGCCCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGACAACCATGAGAT	3960

Query	3961	CCCCGGTGTTCACGGACAACCTCTCTCCACCAGCAGTGCCTCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCTCTCCACCAGCAGTGCCTCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCACCCGGCAGCGGTAAAGAGCACCAAGGTCCTCCGCTGCGTACGACAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCACCCGGCAGCGGTAAAGAGCACCAAGGTCCTCCGCTGCGTACGACAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGTCTGAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGTCTGAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAAATTTGTGACGAGTGCCACTCCACGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAAATTTGTGACGAGTGCCACTCCACGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCAGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCAGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGTTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGTTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCACGAGCTCGCCGCCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCACGAGCTCGCCGCCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCCGGGCTTTGACGTGCTGTGTCATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCCGGGCTTTGACGTGCTGTGTCATCC	4620
Query	4621	CGACCAGCGCGCATGTTGTGCTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGC	4680
Sbjct	4621	CGACCAGCGCGCATGTTGTGCTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGC	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTTAGACAAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTTAGACAAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGACCCGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGACCCGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCAGGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCAGGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCTTACCTGG	5100

Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTGTTGATCCGCCTTAAACCCACCTCCATGGGGCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTGTTGATCCGCCTTAAACCCACCTCCATGGGGCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAAGATGAAGTCACCTGACGCACCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAAGATGAAGTCACCTGACGCACCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTGCGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGGCTCC	5340
Sbjct	5281	CATGCATGTGCGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGGCTCC	5340
Query	5341	TGGCTGCTCTGGCCCGGATTGCTGTCAACAGGTCGCTGGTGCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCCGGATTGCTGTCAACAGGTCGCTGGTGCATAGTGGGCAGGATTG	5400
Query	5401	TCTGTCCGGGAAGCCGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTTCGATG	5460
Sbjct	5401	TCTGTCCGGGAAGCCGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCAGCATGACAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCAGCATGACAGGTTATCA	5580
Query	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAACTATTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAACTATTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATAATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCCTA	5820
Sbjct	5761	TCCTCTTCAACATAATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCCTA	5820
Query	5821	CTGCCCTTTGGGGTGTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGGAAG	5880
Sbjct	5821	CTGCCCTTTGGGGTGTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGGAAG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGGGGCGTGGCGGGAGCTCTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGGGGCGTGGCGGGAGCTCTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCCACCAGGAGACCTGGTCAATCTGCTGCCCGCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCCACCAGGAGACCTGGTCAATCTGCTGCCCGCATCC	6000
Query	6001	TCTGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACCTGCGCCGGCAGTTG	6060
Sbjct	6001	TCTGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACCTGCGCCGGCAGTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Query	6121	ACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCTTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCTTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240

Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTAAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Sbjct	6301	TGCTGAGCGACTTAAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Query	6361	CCTTTGTGTCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTACGCCCTACACCA	6540
Sbjct	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTACGCCCTACACCA	6540
Query	6541	CGGGCCCTGTACTCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCTGTACTCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCTACACAGGTTTGCGCCCTTTCGAAGCCCTTGTCTGCGGAGGAGGATATCAT	6780
Sbjct	6721	GGGTGCGCTACACAGGTTTGCGCCCTTTCGAAGCCCTTGTCTGCGGAGGAGGATATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGGCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGGCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGTTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGTTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGCTAGCCAGCTGT	6960
Query	6961	CGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCGGAGCTCA	7020
Sbjct	6961	CGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCGGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCG	7200
Query	7201	TCGGGCGCGGCGGACTACAACCCCCGCTAGTAGAGAGCTGGAAGAGCCTGAGTACG	7260
Sbjct	7201	TTGGGCGCGGCGGACTACAACCCCCGCTAGTAGAGAGCTGGAAGAGCCTGAGTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCTCCCG	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCTCCCG	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCAGATCAACCTTACTGCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCAGATCAACCTTACTGCTTGGCCGAGC	7380

Query	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCGGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCGGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGGCCGCCCTTCTGGCTGCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGGCCGCCCTTCTGGCTGCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGCCCCCTGGAGGGGGAGGCTGGGGATCCGGATCTCAGCGACGGGTATGTCGA	7560
Sbjct	7501	CCATGCCCCCTGGAGGGGGAGGCTGGGGATCCGGATCTCAGCGACGGGTATGTCGA	7560
Query	7561	CGGTCACTAGTGGGGCCGACACGGAAGATGTCGTGTCTGCTCAATGCTTATTCCTGGA	7620
Sbjct	7561	CGGTCACTAGTGGGGCCGACACGGAAGATGTCGTGTCTGCTCAATGCTTATTCCTGGA	7620
Query	7621	CAGGGCCACTCGTCACCCCGTGCCTGCGGAAGAACAACAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGGCCACTCGTCACCCCGTGCCTGCGGAAGAACAACAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTGTGCTACGCCATCACAACTCGGTGATTCCACCCTTCACGCACTGCTTGGC	7740
Sbjct	7681	GCAACTCGTGTGCTACGCCATCACAACTCGGTGATTCCACCCTTCACGCACTGCTTGGC	7740
Query	7741	AAAGGCAGAGAAGTACATTTGACAGACTGCAAGTTCTGGACAGCCATTACAGGAGC	7800
Sbjct	7741	AAAGGCAGAGAAGTACATTTGACAGACTGCAAGTTCTGGACAGCCATTACAGGAGC	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAATCTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAATCTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGCAAAAG	7920
Sbjct	7861	AAGCTTGAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGCAAAAG	7920
Query	7921	ACGTCCGTGGCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTC	7980
Sbjct	7921	ACGTCCGTGGCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGGCAAGAAGAGGTTTTCTGG	8040
Sbjct	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGGCAAGAAGAGGTTTTCTGG	8040
Query	8041	TTACGCTTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCTGTTCCCGACCTGGGCG	8100
Sbjct	8041	TTACGCTTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCTGTTCCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCGCTGGCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCGCTGGCGTGA	8160
Query	8161	TGGGAAGCTCCTACGATTCCAATACTACAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGATTCCAATACTACAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTGGACTCCA	8280
Sbjct	8221	CGTGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTGGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGCATCCGTACGGAGGAGGCAATTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGCATCCGTACGGAGGAGGCAATTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAACTGCGGCTACCGCAGTGCCGCGGAGCGGCTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAACTGCGGCTACCGCAGTGCCGCGGAGCGGCTACTGACAA	8460
Query	8461	CTAGCTGTGGTAAACACCTCACTTGCTACATCAAGGCCGGGACGCTGTGAGCCGACG	8520
Sbjct	8461	CTAGCTGTGGTAAACACCTCACTTGCTACATCAAGGCCGGGACGCTGTGAGCCGACG	8520

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Query 8521  GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG 8580
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Sbjct 8521  GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG 8580

Query 8581  CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT 8640
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Sbjct 8581  CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT 8640

Query 8641  CCGcccccccggggacccccaCAACCCAGAATACGACTTGGAGCTTATAACATCATGCT 8700
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Sbjct 8641  CCGCCCCCCCCGGGGACCCCCCAACCCAGAATACGACTTGGAGCTTATAACATCATGCT 8700

Query 8701  CCTCCAACGTGTGAGTCGCCCCACGACGGCGCTGGAAGAGGGGTCTACTACCTTACCCGTG 8760
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Sbjct 8701  CCTCCAACGTGTGAGTCGCCCCACGACGGCGCTGGAAGAGGGGTCTACTACCTTACCCGTG 8760

Query 8761  ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATT 8820
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Sbjct 8761  ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATT 8820

Query 8821  CTGTGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA 8880
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Sbjct 8821  CTGTGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA 8880

Query 8881  CCCATTTCCTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGTGAGA 8940
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Sbjct 8881  CCCATTTCCTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGTGAGA 8940

Query 8941  TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAGACTCC 9000
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Sbjct 8941  TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAGACTCC 9000

Query 9001  ATGGCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG 9060
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Sbjct 9001  ATGGCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG 9060

Query 9061  CATGCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGAGCTTGGAGACACCGGGCCCGGAGCG 9120
          |||
Sbjct 9061  CATGCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGAGCTTGGAGACACCGGGCCCGGAGCG 9120

Query 9121  TCCGCGCTAGGCTTCTGTCCAGAGGAGGCGAGGCTGCCATATGTGGCAAGTACCTCTTCA 9180
          |||
Sbjct 9121  TCCGCGCTAGGCTTCTGTCCAGAGGAGGCGAGGCTGCCATATGTGGCAAGTACCTCTTCA 9180

Query 9181  ACTGGGCAGTAAGAACAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT 9240
          |||
Sbjct 9181  ACTGGGCAGTAAGAACAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT 9240

Query 9241  TGTCGGTGTGTTTACGGCTGGCTACAGCGGGGAGACATTATACAGCGTGTCTCATG 9300
          |||
Sbjct 9241  TGTCGGTGTGTTTACGGCTGGCTACAGCGGGGAGACATTATACAGCGTGTCTCATG 9300

Query 9301  CCGGCGCCCGCTGGTTCTGGTTTTCGCTACTCCTGCTCGCTGACGGGGTAGGCATCTACC 9360
          |||
Sbjct 9301  CCGGCGCCCGCTGGTTCTGGTTTTCGCTACTCCTGCTCGCTGACGGGGTAGGCATCTACC 9360

Query 9361  TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTGttt 9420
          |||
Sbjct 9361  TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAGGCATTTCCTGTTT 9420

Query 9421  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9480
          |||
Sbjct 9421  TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT--TTCTTTTTTTT 9478

Query 9481  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9498
          |||
Sbjct 9479  TTT-TTTTTCTTTTTTTT 9495

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Score = 285 bits (154), Expect = 6e-73
 Identities = 177/187 (94%), Gaps = 6/187 (3%)
 Strand=Plus/Plus

```

Query 9418  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9474
          |||

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Sbjct	9461	TTTTTTTCTTTTTTTTTTTTTTTTCCTTTTTTTTTTTTTTTTTTCTTTCCTTC-IT	9519
Query	9475	TTTTCCTTTCTTTT--TCTCTCTTAAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTA	9532
Sbjct	9520	TTTTCCTTCTTTTCTCTCTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTA	9579
Query	9533	GCTGTGAAGGTCCTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCCTCTCTGCAG	9592
Sbjct	9580	GCTGTGAAGGTCCTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCCTCTCTGCAG	9639
Query	9593	ATCATGT 9599	
Sbjct	9640	ATCATGT 9646	

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>emb|FB361093.1| Sequence 12 from Patent WO2006110762
Length=9646
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Sort alignments for this subject sequence
E value  Score  Percent identity
Query start position  Subject start position
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Score = 1.732e+04 bits (9379), Expect = 0.0
Identities = 9459/9498 (99%), Gaps = 3/9498 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTGTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTGTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGGTAGTATGAGTGTCTGTCGAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGGTAGTATGAGTGTCTGTCGAGCCTCCAGGAC	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCCTTCTTGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGGCCCC	240
Sbjct	181	GACGACCGGGTCCCTTCTTGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCCTTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCCTTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCGGGAGGTCCTCTAGACCGTGCAACATGAGCAGGAATCCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCGGGAGGTCCTCTAGACCGTGCAACATGAGCAGGAATCCTAAAC	360
Query	361	CTCAAGAAAAACCAACGTAACCAACCGTCGCCCCACAGGACGTCAAGTCTCCGGGTG	420
Sbjct	361	CTCAAGAAAAACCAACGTAACCAACCGTCGCCCCACAGGACGTCAAGTCTCCGGGTG	420
Query	421	GCGGTGAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTGAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGAGCTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGAGCTCAGCCTATCCCCA	540
Query	541	AGGCAGTTCGGCCCGAGGGCAGGACTGGGCTCAGCCCGGGTACCTTGGCCCTCTATG	600
Sbjct	541	AGGCAGTTCGGCCCGAGGGCAGGACTGGGCTCAGCCCGGGTACCTTGGCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCTAGCT	660
Query	661	GGGGCCCCACAGACCCCGCGCTAGGTCGCGCAATTGGGTAAAGTTCATGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCGCGCTAGGTCGCGCAATTGGGTAAAGTTCATGATACCCTTA	720
Query	721	CGTGCGGCTTGCGCGACCTCATGGGTACATACCGCTCTGTGGCGGCCCTTGTGAGGGCG	780

Sbjct	721	CGTGC GGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCTCTTGAGGGCG	780
Query	781	CTGCCAGGGCCCTTGGCGCATGGCGTCCGGGTCTTGGAAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTTGGCGCATGGCGTCCGGGTCTTGGAAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACTCTTCTGGTGTGCTCTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACTCTTCTGGTGTGCTCTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGGCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAATCTCGATTATTGTGTACGAGCGGGCGATGCCATCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAATCTCGATTATTGTGTACGAGCGGGCGATGCCATCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCTTTGCGTTTCGCGAGGGTAACGCCCTCGAGGTGTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCTTTGCGTTTCGCGAGGGTAACGCCCTCGAGGTGTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGCTCATATCGATCTGCTTTGTG	1140
Sbjct	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGCTCATATCGATCTGCTTTGTG	1140
Query	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCATGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCATGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAATGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAATGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCAGTAGCGTATTTCTCCATGGTGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCAGTAGCGTATTTCTCCATGGTGGGA	1440
Query	1441	ACTGGGCGAAGGTCTTGGTAGTGCTGCTGCTATTTCGCGGCGTCGACGCGGAAACCCAG	1500
Sbjct	1441	ACTGGGCGAAGGTCTTGGTAGTGCTGCTGCTATTTCGCGGCGTCGACGCGGAAACCCAG	1500
Query	1501	TACCGGGGGAATGCGGGCGCACCAACGGCTGGGCTTGTGGTCTCCTTACACCAAGGG	1560
Sbjct	1501	TACCGGGGGAATGCGGGCGCACCAACGGCTGGGCTTGTGGTCTCCTTACACCAAGGG	1560
Query	1561	CCAAGCAGAACATCCAACATGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACATGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCAAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGTCAGCGCCCTACCGGATTTTGCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGTCAGCGCCCTACCGGATTTTGCC	1740
Query	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCTTCCAAGACCTTGTGGCATTTGTGCCCGCAAAGACGCTGTGTGGCCGGTAT	1860
Sbjct	1801	GGCACTACCTTCCAAGACCTTGTGGCATTTGTGCCCGCAAAGACGCTGTGTGGCCGGTAT	1860
Query	1861	ATTGCTTCACTCCAGGCCCGGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCTACCT	1920

Sbjct	1861	ATTGCTTCACTCCAGCCCGTGGTGGTGGGAACGACGAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCTTAAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCTTAAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTGTGACTCGGATGAATCAACTGGAATCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTGTGACTCGGATGAATCAACTGGAATCACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGTTTCC	2100
Query	2101	GCAAAATCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCATACTCTTGATACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCATACTCTTGATACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGCTGGAAGCGGCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCCTCCGTGTTCTTTACGAGCCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCCTCCGTGTTCTTTACGAGCCCTGCCAGCCTTGTTCCA	2400
Query	2401	CGGGCTCATCCACTTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGTAGGGT	2460
Sbjct	2401	CGGGCTCATCCACTTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGTAGGGT	2460
Query	2461	CAAGCATCGGCTCCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGGCTCCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTGCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTGCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGGAGCGG	2700
Sbjct	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGGAGCGG	2700
Query	2701	TCTACGCCCTTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGCGCGCGTGTGTTCTTGTGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGCGCGCGTGTGTTCTTGTGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGATGTGGTGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGATGTGGTGCTTC	2880
Query	2881	AGTATTTTCTGACAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCACTGTC	2940
Sbjct	2881	AGTATTTTCTGACAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCACTGTC	2940
Query	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCGACCTGGTATTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTGTAGTACACCGACCTGGTATTG	3000
Query	3001	ACATACCAAATCTCTCTGCCATCTTCGGACCCCTTTGGATTCTTAAGCCAGTTTGC	3060

Sbjct	3001	ACATCACCAAACTACTCTCTGGCCATCTTCGAGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCTACTTCTCGTGCAGCTTCAAGGCCTTCTCCGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCTACTTCTCGTGCAGCTTCAAGGCCTTCTCCGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGAGGTGCTATTACGTGCAAAATGGCCATCATCAAGTTAGGGCGCTTACTTGGA	3180
Sbjct	3121	AGATAGCCGAGGTGCTATTACGTGCAAAATGGCCATCATCAAGTTAGGGCGCTTACTTGGA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAAGGCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAAGGCTGCGAGATC	3240
Query	3241	TGGCGTGGCTGTGGAAACAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCGTGGCTGTGGAAACAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGCAGATACGCCCGGTGCGGTGACATCATCAACGGCTTGGCCGCTCTGCCCGTAGGG	3360
Sbjct	3301	GGCAGATACGCCCGGTGCGGTGACATCATCAACGGCTTGGCCGCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCAAGGGGTGGAGGTGCTCGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCAAGGGGTGGAGGTGCTCGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCTGGCAACGTGCATCAATGGGTATGCTGGACTGTCTACACGGGGCGGAA	3600
Sbjct	3541	AAACCTTCTGGCAACGTGCATCAATGGGTATGCTGGACTGTCTACACGGGGCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGTGGCCCGCTCTCAAGGTTCCCGCTCATTTGACACCCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGTGGCCCGCTCTCAAGGTTCCCGCTCATTTGACACCCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTCTATCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTCTATCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTGCGCCCGGCCAATTTCTACTTGAAAGGCTTCCTGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTGCGCCCGGCCAATTTCTACTTGAAAGGCTTCCTGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCCTATTACGGGCCCGGTGTGACACC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCCTATTACGGGCCCGGTGTGACACC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCTCCACGACAGTGCACCAAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCTCTCCACGACAGTGCACCAAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCACCGGCAGCGGTAAAGACACCAAGGTCCTGGCTGCGTACGACGCC	4080
Sbjct	4021	ACCTGCATGCTCCACCGGCAGCGGTAAAGACACCAAGGTCCTGGCTGCGTACGACGCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGTCTCAACCCCTCTGTTGTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGTCTCAACCCCTCTGTTGTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCATGGGGTGTATCCTAATATCAGGACCGGGGTGAGACAATTACCA	4200

Sbjct 4141 ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA 4200

Query 4201 CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGTCTAG 4260

Sbjct 4201 CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGTCTAG 4260

Query 4261 GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGATGCCACATCCATCT 4320

Sbjct 4261 GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGATGCCACATCCATCT 4320

Query 4321 TGGGCATCGGCCTGTCTTGACCAAGCAGAGACTGCGGGGGCAGAGACTGGTTGTGCTCG 4380

Sbjct 4321 TGGGCATCGGCCTGTCTTGACCAAGCAGAGACTGCGGGGGCAGAGACTGGTTGTGCTCG 4380

Query 4381 CCACCTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTAACATCGAGGAGTTGCTC 4440

Sbjct 4381 CCACCTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTAACATCGAGGAGTTGCTC 4440

Query 4441 TGTCCACCACCGGAGAGATCCCCITTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG 4500

Sbjct 4441 TGTCCACCACCGGAGAGATCCCCITTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG 4500

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Sbjct 4501 GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCACGAGCTCGCCGCGAAGC 4560

Query 4561 TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCAATC 4620

Sbjct 4561 TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCAATC 4620

Query 4621 CGACCAGCGGCGATGTTGTCTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGG 4680

Sbjct 4621 CGACCAGCGGCGATGTTGTCTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGG 4680

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Sbjct 4681 ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG 4740

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Sbjct 4741 ACCCTACCTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC 4800

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Sbjct 4801 GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCACTCTACAGATTTGTGGACCCGGGGAGC 4860

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Sbjct 5041 ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACITTCCTTACCTGG 5100

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Sbjct 5161 TGTGGAAGTGTTTGTATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA 5220

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Sbjct 5221 GACTGGGCGCTGTTTCAAGATGAAGTCACCTGACGCACCAATCACCAATACATCATGA 5280

Query 5281 CATGCATGTGCGGCCGACCTGGAGGTGCTGACGAGCACCTGGGTGCTGTTGGCGGGCTCC 5340

Sbjct	5281	CATGCATGTCGCGCCACCTGGAGGTCGTACAGAGCACTGGGTGCTCGTTGGCGCGCTCC	5340
Query	5341	TGGCTGCTCTGGCCCGGATTGCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCCGGATTGCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATTG	5400
Query	5401	TCTTGTCCGGGAAGCGCGCAATTATACCTGCAGAGGAGGTTCTCTACCAAGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCGCGCAATTATACCTGCAGAGGAGGTTCTCTACCAAGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTTCGGCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTTCGGCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCA	5580
Query	5581	CCCCTGTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACAATGTGGA	5640
Sbjct	5581	CCCCTGTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACAATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGTGCCGCTA	5820
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Sbjct	5821	CTGCCCTTTGGGGTGTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGGAAGG	5880
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Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCCACCAGGAGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCCACCAGGAGACCTGGTCAATCTGCTGCCCGCCATCC	6000
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Sbjct	6001	TCTGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATATGCGCCGGCAGCTTG	6060
Query	6061	GGCCGGGCGAGGGGGCAGTGCAATGGATGAACGGCTAATAGCCTTCGCCCTCCGGGGGA	6120
Sbjct	6061	GGCCGGGCGAGGGGGCAGTGCAATGGATGAACGGCTAATAGCCTTCGCCCTCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCACGCACTACGTCGCGGAGAGCGATGAGCCGCCCGCGTCACTGCCA	6180
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Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGCGACATGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGCGACATGCATCAGTGGATAAGCTCGG	6240
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Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCCAACTGCCTGGGATTTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCCAACTGCCTGGGATTTC	6360
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Sbjct	6361	CCTTTGTGTCTGCCAGCGGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGTGCACCTGTGGAGCTGAGATCACTGGACATGTCAAAGCGGACGATGAGGATCG	6480

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Sbjct  6421  CTCGCTGCCACTGTGGAGCTGAGACTCACTGGACATGTCAAAAACGGGACGATGAGGATCG  6480
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Sbjct  6481  TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTACGCCCTACACCA  6540
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Sbjct  6541  CGGGCCCTGTACTCCCTTCTGCGCCGAACATAAGTTGCGCGCTGTGGAGGGTGTCTG  6600
Query  6601  CAGAGGAATACGTGGAGATAAGGCGGGTGGGGACTTCCACTACGTATCGGGTATGACTA  6660
Sbjct  6601  CAGAGGAATACGTGGAGATAAGGCGGGTGGGGACTTCCACTACGTATCGGGTATGACTA  6660
Query  6661  CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG  6720
Sbjct  6661  CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG  6720
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Sbjct  6721  GGGTGCGCCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGTGCGGGAGGAGGTATCAT  6780
Query  6781  TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCGAACCGG  6840
Sbjct  6781  TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCGAACCGG  6840
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Sbjct  6841  ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG  6900
Query  6901  GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT  6960
Sbjct  6901  GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT  6960
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Sbjct  6961  CGGCTCCATCTCTCAAGGCAACTTGCACCGCAACCATGACTCCCTGACGCGGAGCTCA  7020
Query  7021  TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGGCGCAACATCACCAGGGTTGAGTCAG  7080
Sbjct  7021  TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGGCGCAACATCACCAGGGTTGAGTCAG  7080
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Sbjct  7201  TTTGGGCGCGGCGGACTACAAACCCCGCTAGTAGAGAGCTGGAAGAGCCTGAGTACG  7260
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Sbjct  7261  AACCACTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCTCCCG  7320
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Sbjct  7321  CTCGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCTTGGCCGAGC  7380
Query  7381  TTGCCACAAAAGTTTTGGCAGCTCCTCAACTTCGGCAATTACGGGCGACAAACGACAA  7440
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Sbjct  7441  CATCTCTGAGCCCGCCCTTCTGGCTGCGGCGGCTCCGACGTTGAGTCCATTCTT  7500
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Sbjct  7501  CCATGCGGCGGCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGTTGCA  7560
Query  7561  CGGTCAGTATGTTGGGCGGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA  7620
Sbjct  7561  CGGTCAGTATGTTGGGCGGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA  7620

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Sbjct	7561	CGGTCACTAGTGGGGCCGACACGGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCTGGA	7620
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Query	7681	GCAACTCGTGTGCTACGCCATCACAATCTGGTGATTCCACCACCTTCACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTGTGCTACGCCATCACAATCTGGTGATTCCACCACCTTCACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAGAAGATGCATTGACAGACTGCAAGTCTTGACAGCCATTACCAGGAGC	7800
Sbjct	7741	AAAGGCAGAGAAGATGCATTGACAGACTGCAAGTCTTGACAGCCATTACCAGGAGC	7800
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Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
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Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAAGAGGTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAAGAGGTTTCTGCG	8040
Query	8041	TTGAGCCTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCTGTTCCCGACCTGGGGC	8100
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Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCGCTGGCGTGA	8160
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Sbjct	8401	CCAATTCAAGGGGGGAAAAGTGCAGGCTACCGCAGTGCCCGCGAGCGGCGTACTGACAA	8460
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Sbjct	8461	CTAGCTGTGGTAAACACCTCACTTGCTACATCAAGGCCCGGGCAGCTTGTCGAGCCGACG	8520
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Sbjct	8641	CCGCCCCCGCGGGGACCCCCACAACAGAATACGACTTGGAGCTTATAACATCATGCT	8700
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Sbjct	8701	CCTCCAACGTGTGTCAGTCGCCACGACGGCGCTGGAAGAGGGTCTACTACCTTACCCGTG	8760
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Sbjct	8761	ACCTTACAACCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
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Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCTCCACACTGTGGGCAGGATGATACATGATGA	8880
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Query	9061	CATGCCTCAGAAAACCTGGGGTCCGCCCTTGCAGACTTGGAGACACGGGCGCGGAGCG	9120
Sbjct	9061	CATGCCTCAGAAAACCTGGGGTCCGCCCTTGCAGACTTGGAGACACGGGCGCGGAGCG	9120
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Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGGAGGCGAGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
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Sbjct	9181	ACTGGGCGTAGAAGCAAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGGCTGGACT	9240
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Sbjct	9241	TGTCGGTGTGGTTCACGGCTGCTACAGCGGGGGAGACATTATCACAGCGTGTCTCATG	9300
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Sbjct	9301	CCCGGCCCGCTGCTTCTGGTTTGGCTTACTCTGCTCGCTGACGGGGTAGGCATCTACC	9360
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Query	9481	tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt	9498
Sbjct	9479	TTT-TTTTTCTTTTTTTT	9495

Score = 285 bits (154), Expect = 6e-73
Identities = 177/187 (94%), Gaps = 6/187 (3%)
Strand=Plus/Plus

Query	9418	t t t t t t c t - t t t t t t t t t t t t t t t -- t t c t t t t t t t t t t t t t t c t c t c t t t c t t c t t t	9474
Sbjct	9461	T T T T T T T C T T T T T T T T T T T T T T T T T C C T T T T T T T T T T T T T T T T C T T T C C T T C - T T	9519
Query	9475	t t t t c t c t t t t t t t -- t t c a t t c e r r A A T G G T G G C T C A T C T T A G C C C T A G T C A G G C T A	9532
Sbjct	9520	T T T T C C T T T C T T T T C C T T C C T T T T A A T G G T G G C T C A T C T T A G C C C T A G T C A G G C T A	9579
Query	9533	G C T G T G A A A G G T C C G T G A G C C G C A T G A C T G C A G A G A G T G C T G A T A C T G G C C T C T C T G C A G	9592
Sbjct	9580	C T G T G A A A A G G T C C G T G A G C C G C A T G A C T G C A G A G A G T G C T G A T A C T G G C C T C T C T G C A G	9639
Query	9593	A T C A T G T	9599
Sbjct	9640	A T C A T G T	9646

>gb|EA263001.1| Sequence 1 from patent US 7235394
Length=9646

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.732e+04 bits (9379), Expect = 0.0
Identities = 9459/9498 (99%), Gaps = 3/9498 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAACACTAGT	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAACACTAGT	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCGAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCGAGCCTCCAGGAC	120
Query	121	CCCCCTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCTTTCTTGGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
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Query	241	GCAAGACTGTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGGTACTGCCTGATAGG	300
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Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
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Sbjct	541	AGGCACGTTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGTACCCCTTGGCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGCT	660
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Query	661	GGGGCCCCACAGACCCCCGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCCTTA	720
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Sbjct	721	CTGTCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGGG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
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Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCTTCTGCGCCCTGCTCTCTTGCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGGCGAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
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Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCGATGCCATCTGCACACTCCGGGTGTG	1020

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Sbjct 961 GCCCTAACTCGAGTATTGTGTACGAGCGGCCGATGCCATCTCGCACACTCCGGGGTGTG 1020
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Sbjct 1801 GGCACCTACCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCGGTAT 1860
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Sbjct 1861 ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCTACCT 1920
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Sbjct 1921 ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCTTAACAACACACAGGCCACCGTGG 1980
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Query 2041 CCCCTTGTGTATCGAGGGGTGGGCAACAACACCTTGTCTGCCCCACTGATTGCTTCC 2100
Sbjct 2041 CCCCTTGTGTATCGAGGGGTGGGCAACAACACCTTGTCTGCCCCACTGATTGCTTCC 2100
Query 2101 GCAAACATCCGGAAGCCATACTCTCGGTGCGGCTCCGGTCCCTGGATTACCCAGGT 2160
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Sbjct 2101      |||
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Query 2161      |||
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Sbjct 2161      |||
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Query 2221      |||
TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA 2280
Sbjct 2221      |||
TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA 2280
Query 2281      |||
CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTTGCTGC 2340
Sbjct 2281      |||
CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTTGCTGC 2340
Query 2341      |||
TGTCACACACACAGTGGCAGGTCTTCCGTGTTCTTCACGACCTGCGAGCCTTGCCA 2400
Sbjct 2341      |||
TGTCACACACACAGTGGCAGGTCTTCCGTGTTCTTCACGACCTGCGAGCCTTGCCA 2400
Query 2401      |||
CCGGCTCATCCACCTCCACAGAACATTTGGACGTGAGTACTTGACGGGGTAGGGT 2460
Sbjct 2401      |||
CCGGCTCATCCACCTCCACAGAACATTTGGACGTGAGTACTTGACGGGGTAGGGT 2460
Query 2461      |||
CAAGCATCGGCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCTCTGCTTG 2520
Sbjct 2461      |||
CAAGCATCGGCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCTCTGCTTG 2520
Query 2521      |||
CAGACGCGCGCTCTGCTCCTGCTTTGGATGATGTTACTCATATCCCAAGCGGAGGCGG 2580
Sbjct 2521      |||
CAGACGCGCGCTCTGCTCCTGCTTTGGATGATGTTACTCATATCCCAAGCGGAGGCGG 2580
Query 2581      |||
CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCGGGAGCGACAGGTCTTGTTG 2640
Sbjct 2581      |||
CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCGGGAGCGACAGGTCTTGTTG 2640
Query 2641      |||
CCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGGAGCGG 2700
Sbjct 2641      |||
CCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGGAGCGG 2700
Query 2701      |||
TCTACGCCCTCTACGGGATGTGGCCCTCTCTCTGCTCTCTGCTGGCGTTGCTCAGCGGG 2760
Sbjct 2701      |||
TCTACGCCCTCTACGGGATGTGGCCCTCTCTCTGCTCTCTGCTGGCGTTGCTCAGCGGG 2760
Query 2761      |||
CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGCGGTGTTCTTTGTCGGGTTAA 2820
Sbjct 2761      |||
CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGCGGTGTTCTTTGTCGGGTTAA 2820
Query 2821      |||
TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGATGTGGTGGCTTC 2880
Sbjct 2821      |||
TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGATGTGGTGGCTTC 2880
Query 2881      |||
AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCACTGTC 2940
Sbjct 2881      |||
AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCACTGTC 2940
Query 2941      |||
GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCGACCTGGTATTG 3000
Sbjct 2941      |||
GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCGACCTGGTATTG 3000
Query 3001      |||
ACATCACCAACTACTCTCTGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTC 3060
Sbjct 3001      |||
ACATCACCAACTACTCTCTGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTC 3060
Query 3061      |||
TTAAAGTCCCTACTTCTGTGCGGCTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGA 3120
Sbjct 3061      |||
TTAAAGTCCCTACTTCTGTGCGGCTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGA 3120
Query 3121      |||
AGATAGCCGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA 3180
Sbjct 3121      |||
AGATAGCCGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA 3180
Query 3181      |||
CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAGATC 3240
Sbjct 3181      |||
CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAGATC 3240
Query 3241      |||
TGGCGGTGGCTGTGGAACAGTCTCTTCTCCCGAATGGAGACCAAGCTCATCAGTGGG 3300

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Sbjct 3241 TGGCGTGGCTGTGGAAACAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG 3300
Query 3301 GGGCAGATACCGCCGGTGGCGTGACATCATCAACGGCTTGGCCGCTCTGCCCCGTAGGG 3360
|||||
Sbjct 3301 GGGCAGATACCGCCGGTGGCGTGACATCATCAACGGCTTGGCCGCTCTGCCCCGTAGGG 3360
Query 3361 GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCAAGGGGTGGAGGTTGCTGG 3420
Sbjct 3361 GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCAAGGGGTGGAGGTTGCTGG 3420
Query 3421 CGCCCCATCAGGGCGTACGCCACGAGACGAGAGGGCTCCTTAGGGTGTATAATCACCAGCC 3480
Sbjct 3421 CGCCCCATCAGGGCGTACGCCACGAGACGAGAGGGCTCCTTAGGGTGTATAATCACCAGCC 3480
Query 3481 TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC 3540
Sbjct 3481 TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC 3540
Query 3541 AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAACGGGCGGAA 3600
Sbjct 3541 AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAACGGGCGGAA 3600
Query 3601 CGAGGACCATCGCATCACCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCAAG 3660
Sbjct 3601 CGAGGACCATCGCATCACCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCAAG 3660
Query 3661 ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTATTGACACCCGTACCTGCGGCT 3720
Sbjct 3661 ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTATTGACACCCGTACCTGCGGCT 3720
Query 3721 CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTCTATTCCCGTGCGCCGGCGAGGTG 3780
Sbjct 3721 CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTCTATTCCCGTGCGCCGGCGAGGTG 3780
Query 3781 ATAGCAGGGGTAGCCTGCTTTCGCCCCGGGCCAATTCTACTTGAAGGGCTTCCTCGGGG 3840
Sbjct 3781 ATAGCAGGGGTAGCCTGCTTTCGCCCCGGGCCAATTCTACTTGAAGGGCTTCCTCGGGG 3840
Query 3841 GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCCTATTACAGGCGCCGCTGTGCACCC 3900
Sbjct 3841 GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCCTATTACAGGCGCCGCTGTGCACCC 3900
Query 3901 GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT 3960
Sbjct 3901 GTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT 3960
Query 3961 CCCCAGGTGTTACGGGACAACCTCCTCTCCACGACAGTGCACCAAGCTTCCAGGTGGGCC 4020
Sbjct 3961 CCCCAGGTGTTACGGGACAACCTCCTCTCCACGACAGTGCACCAAGCTTCCAGGTGGGCC 4020
Query 4021 ACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCGCCGCTGCGTACGACGCC 4080
Sbjct 4021 ACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCGCCGCTGCGTACGACGCC 4080
Query 4081 AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGAACGCTGGGCTTTGGTGCTT 4140
Sbjct 4081 AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGAACGCTGGGCTTTGGTGCTT 4140
Query 4141 ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATTACCA 4200
Sbjct 4141 ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATTACCA 4200
Query 4201 CTGGCAGCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG 4260
Sbjct 4201 CTGGCAGCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG 4260
Query 4261 GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT 4320
Sbjct 4261 GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT 4320
Query 4321 TGGGCATCGGCACGTGCTTGGACCAAGCAGAGACTGCGGGGGCGAGACTGGTGTGCTCG 4380
Sbjct 4321 TGGGCATCGGCACGTGCTTGGACCAAGCAGAGACTGCGGGGGCGAGACTGGTGTGCTCG 4380
Query 4381 CCACTGTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTAACATCGAGGAGGTGCTC 4440
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Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGCTCACTGTGCCCCACTTAACATCAGGAGGTTGCTC	4440
Query	4441	TGTCACCACCAGGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCACCACCAGGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGATTGGGCATCAATGCCGTGGCCTACTACCGCGGCTTGACGTGCTGTCAATCC	4620
Sbjct	4561	TGGTCGATTGGGCATCAATGCCGTGGCCTACTACCGCGGCTTGACGTGCTGTCAATCC	4620
Query	4621	CGACCAGCGGGCATGTTGTGCTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGC	4680
Sbjct	4621	CGACCAGCGGGCATGTTGTGCTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGC	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCTTG	4740
Query	4741	ACCTTACCTTTTACCATTGAGACAACCAGCGTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCTTACCTTTTACCATTGAGACAACCAGCGTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTGCACTCGTCCGCTCTGTGAGTGTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCTCCGGCATGTTGCACTCGTCCGCTCTGTGAGTGTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTACCGCCCGCAGACTACAGTTAGGCTACGAGCGGTACATGAACCCCGG	4980
Sbjct	4921	GGTATGAGCTACCGCCCGCAGACTACAGTTAGGCTACGAGCGGTACATGAACCCCGG	4980
Query	4981	GGCTCCCGGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCACTC	5040
Sbjct	4981	GGCTCCCGGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAACTTTCTTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAACTTTCTTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGATGAAGTCACCTTGACGCACCCAATCACCACATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGATGAAGTCACCTTGACGCACCCAATCACCACATACATCATGA	5280
Query	5281	CATGCAATGTCGGCGCACTGGAGGTCTGCACAGCACTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCAATGTCGGCGCACTGGAGGTCTGCACAGCACTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCGCGGTATTGCTCTGTCAACAGGCTGCGTGGTCAATGTTGGCAGGATTG	5400
Sbjct	5341	TGGCTGCTCTGGCGCGGTATTGCTCTGTCAACAGGCTGCGTGGTCAATGTTGGCAGGATTG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGACAGGAGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGACAGGAGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAGCAGAAAGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATCGAGAGGTTATCA	5580

Sbjct	5521	AGTTCAAGCAGAAAGGCCCTCGCCCTCTGCAGACCCGCTCCGCCAAGCAGAGGTTATCA	5580
Query	5581	CCCCGCTGCTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGCGGAAGCACATGTGGA	5640
Sbjct	5581	CCCCGCTGCTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGCGGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCTCTTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGTGCCGCTA	5820
Sbjct	5761	TCTCTTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGTGCCGCTA	5820
Query	5821	CTGCCCTTTGTGGGTGCTGGCTAGCTGGCGCGCCCATGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CCGCCCTTTGTGGCGCTGGCTAGCTGGCGCGCCCATGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCTCTGTGGACATTCTTCAGGGGTAATGGCGCGGGCGTGGCGGGAGCTCTTTGAGCATTCA	5940
Sbjct	5881	TCTCTGTGGACATTCTTCAGGGGTAATGGCGCGGGCGTGGCGGGAGCTCTTTGAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCTCCAGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCTCCAGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCTGGAGCCCTTGTAGTCGGTGTGGTCTGCCGAGCAATACTGCCCGGCACGTTG	6060
Sbjct	6001	TCTCGCTGGAGCCCTTGTAGTCGGTGTGGTCTGCCGAGCAATACTGCCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGCATATGATGAACCGGTATAAGCTCTCGCTCCCGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGCATATGATGAACCGGTATAAGCTCTCGCTCCCGGGGA	6120
Query	6121	ACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGCAGCGCCCGCGCTACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGCAGCGCCCGCGCTACTGCCA	6180
Query	6181	TACTCAGCAGCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTAACCACTCCATGCTCCGGTTCTGGTGAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTAACCACTCCATGCTCCGGTTCTGGTGAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Query	6361	CTTTTGTTGCTCTGCCAGCGGGGTAAGGGGGGTCTGGCGAGGAGAGCGCATTATGACA	6420
Sbjct	6361	CTTTTGTTGCTCTGCCAGCGGGGTAAGGGGGGTCTGGCGAGGAGAGCGCATTATGACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCA	6540
Sbjct	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCA	6540
Query	6541	CGGGCCCTGTACTCCCTCTCTGCGCCGAACATAAGTTCCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCTGTACTCCCTCTCTGCGCCGAACATAAGTTCCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTAGTATCGGATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTAGTATCGGATGACTA	6660
Query	6661	CTGACAATCTTAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720

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Sbjct 6661 |CTGACAATCTTAAATGCCGTCGCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG| 6720
Query 6721 |GGGTGCGCCTACACAGGTTTGGCGCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT| 6780
Sbjct 6721 |GGGTGCGCCTACATAGGTTTGGCGCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT| 6780
Query 6781 |TCAGAGTAGGACTCCACGAGTACCCGGTGGGTCGCAATTACCTTGCGAGCCCGAACCGG| 6840
Sbjct 6781 |TCAGAGTAGGACTCCACGAGTACCCGGTGGGTCGCAATTACCTTGCGAGCCCGAACCGG| 6840
Query 6841 |ACGTAGCCGTGTTGACGTCCTATGCTCACTGATCCCTCCCATATAACACGAGAGCGGCCG| 6900
Sbjct 6841 |ACGTAGCCGTGTTGACGTCCTATGCTCACTGATCCCTCCCATATAACACGAGAGCGGCCG| 6900
Query 6901 |GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGCTAGCCAGCTGT| 6960
Sbjct 6901 |GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCAGCTGT| 6960
Query 6961 |CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA| 7020
Sbjct 6961 |CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA| 7020
Query 7021 |TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGCGCGCAACATCACCAGGTTGAGTCAG| 7080
Sbjct 7021 |TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGCGCGCAACATCACCAGGTTGAGTCAG| 7080
Query 7081 |AGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG| 7140
Sbjct 7081 |AGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG| 7140
Query 7141 |AGGTCCTCCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCG| 7200
Sbjct 7141 |AGGTCCTCCGTACCCGACAGAAATTCGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCG| 7200
Query 7201 |TCTGGGCGCGGCCGGAATACAAACCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG| 7260
Sbjct 7201 |TCTGGGCGCGGCCGGAATACAAACCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG| 7260
Query 7261 |AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCTCCCG| 7320
Sbjct 7261 |AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCTCCCG| 7320
Query 7321 |CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTTAICTACTGCTTGGCCGAGC| 7380
Sbjct 7321 |CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTTAICTACTGCTTGGCCGAGC| 7380
Query 7381 |TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA| 7440
Sbjct 7381 |TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA| 7440
Query 7441 |CATCCTCTGAGCCCGCCCCCTTCTGGCTGCGGCGGCTCCGACGTTGAGTCTATTCTT| 7500
Sbjct 7441 |CATCCTCTGAGCCCGCCCCCTTCTGGCTGCGGCGGCTCCGACGTTGAGTCTATTCTT| 7500
Query 7501 |CCATGCGGCGGCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCAGCGGGTCATGGTCTGA| 7560
Sbjct 7501 |CCATGCGGCGGCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCAGCGGGTCATGGTCTGA| 7560
Query 7561 |CGGTAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTTGA| 7620
Sbjct 7561 |CGGTAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTTGA| 7620
Query 7621 |CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACATGCCATCAACGCACTGA| 7680
Sbjct 7621 |CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACATGCCATCAACGCACTGA| 7680
Query 7681 |GCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTACGCGAGTGCTTGGC| 7740
Sbjct 7681 |GCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTACGCGAGTGCTTGGC| 7740
Query 7741 |AAAGGCAGAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAGC| 7800
Sbjct 7741 |AAAGGCAGAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAGC| 7800
Query 7801 |TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG| 7860

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Sbjct  7801  |T|G|C|T|C|A|A|G|G|A|G|T|C|A|A|G|C|A|G|C|G|C|G|T|C|A|A|A|G|T|G|A|A|G|G|C|T|A|A|C|T|T|G|C|T|A|T|C|C|G|T|A|G|A|G|G| 7860
Query  7861  |A|A|G|C|T|T|G|C|A|G|C|C|T|G|A|G|C|G|C|C|C|C|A|C|A|T|T|C|A|G|C|C|A|A|A|T|C|C|A|G|T|T|G|G|C|T|A|T|G|G|G|C|A|A|A|G| 7920
Sbjct  7861  |A|A|G|C|T|T|G|C|A|G|C|C|T|G|A|G|C|G|C|C|C|C|A|C|A|T|T|C|A|G|C|C|A|A|A|T|C|C|A|G|T|T|G|G|C|T|A|T|G|G|G|C|A|A|A|G| 7920
Query  7921  |A|C|G|T|C|C|G|T|T|G|C|A|T|G|C|C|A|G|A|A|G|G|C|C|G|T|A|G|C|C|C|A|C|A|T|C|A|A|C|T|C|C|G|T|G|T|G|G|A|A|G|A|C|C|T|T|C| 7980
Sbjct  7921  |A|C|G|T|C|C|G|T|T|G|C|A|T|G|C|C|A|G|A|A|G|G|C|C|G|T|A|G|C|C|C|A|C|A|T|C|A|A|C|T|C|C|G|T|G|T|G|G|A|A|G|A|C|C|T|T|C| 7980
Query  7981  |T|G|G|A|A|G|C|A|G|T|T|A|A|C|C|A|A|T|A|G|A|C|A|C|T|A|C|C|A|T|C|A|T|G|G|C|C|A|A|G|A|A|C|A|G|G|T|T|T|C|T|G|G| 8040
Sbjct  7981  |T|G|G|A|A|G|C|A|G|T|T|A|A|C|C|A|A|T|A|G|A|C|A|C|T|A|C|C|A|T|C|A|T|G|G|C|C|A|A|G|A|A|C|A|G|G|T|T|T|C|T|G|G| 8040
Query  8041  |T|T|C|A|G|C|C|T|G|A|A|G|G|G|G|G|T|C|G|T|A|A|G|C|C|A|G|C|T|C|G|T|C|A|T|C|G|T|G|T|T|C|C|C|G|A|C|T|G|G|G|G| 8100
Sbjct  8041  |T|T|C|A|G|C|C|T|G|A|A|G|G|G|G|G|T|C|G|T|A|A|G|C|C|A|G|C|T|C|G|T|C|A|T|C|G|T|G|T|T|C|C|C|G|A|C|T|G|G|G|G| 8100
Query  8101  |T|G|C|G|C|G|T|G|T|G|C|G|A|A|G|A|T|G|G|C|C|T|G|T|A|C|G|A|C|G|T|G|G|T|T|A|G|C|A|A|G|C|T|C|C|C|C|T|G|G|C|G|T|G|A| 8160
Sbjct  8101  |T|G|C|G|C|G|T|G|T|G|C|G|A|A|G|A|T|G|G|C|C|T|G|T|A|C|G|A|C|G|T|G|G|T|T|A|G|C|A|A|G|C|T|C|C|C|C|T|G|G|C|G|T|G|A| 8160
Query  8161  |T|G|G|A|A|G|C|T|C|T|A|C|G|G|A|T|T|C|A|A|T|A|C|T|A|C|C|A|G|G|A|C|A|G|C|G|G|T|T|G|A|A|T|T|C|T|C|G|T|G|C|A|A|G| 8220
Sbjct  8161  |T|G|G|A|A|G|C|T|C|T|A|C|G|G|A|T|T|C|A|A|T|A|C|T|A|C|C|A|G|G|A|C|A|G|C|G|G|T|T|G|A|A|T|T|C|T|C|G|T|G|C|A|A|G| 8220
Query  8221  |C|G|T|G|G|A|G|T|C|C|A|A|G|A|A|G|A|C|C|C|G|A|T|G|G|G|T|T|C|T|C|G|T|A|T|G|A|T|A|C|C|G|C|T|G|T|T|T|G|A|C|T|C|A| 8280
Sbjct  8221  |C|G|T|G|G|A|G|T|C|C|A|A|G|A|A|G|A|C|C|C|G|A|T|G|G|G|T|T|C|T|C|G|T|A|T|G|A|T|A|C|C|G|C|T|G|T|T|T|G|A|C|T|C|A| 8280
Query  8281  |C|A|G|T|C|A|C|T|G|A|G|A|G|C|G|A|C|A|T|C|C|G|T|A|C|G|G|A|G|A|G|G|C|A|A|T|T|A|C|C|A|A|G|T|T|G|T|G|A|C|T|G|G|A|C| 8340
Sbjct  8281  |C|A|G|T|C|A|C|T|G|A|G|A|G|C|G|A|C|A|T|C|C|G|T|A|C|G|G|A|G|A|G|G|C|A|A|T|T|A|C|C|A|A|G|T|T|G|T|G|A|C|T|G|G|A|C| 8340
Query  8341  |C|C|C|A|G|C|C|C|G|T|G|G|C|A|T|C|A|A|G|T|C|C|C|T|C|A|C|T|G|A|G|A|G|G|C|T|T|A|T|G|T|G|G|G|G|G|C|C|T|T|T|A| 8400
Sbjct  8341  |C|C|C|A|G|C|C|C|G|T|G|G|C|A|T|C|A|A|G|T|C|C|C|T|C|A|C|T|G|A|G|A|G|G|C|T|T|A|T|G|T|G|G|G|G|G|C|C|T|T|T|A| 8400
Query  8401  |C|C|A|A|T|T|C|A|A|G|G|G|G|G|A|A|A|A|C|T|G|C|G|G|T|A|C|C|G|A|G|T|G|C|C|G|C|G|A|G|C|G|G|C|T|A|C|T|G|A|C|A| 8460
Sbjct  8401  |C|C|A|A|T|T|C|A|A|G|G|G|G|G|A|A|A|A|C|T|G|C|G|G|T|A|C|C|G|A|G|T|G|C|C|G|C|G|A|G|C|G|G|C|T|A|C|T|G|A|C|A| 8460
Query  8461  |C|T|A|G|C|T|G|T|G|T|A|A|C|A|C|C|T|C|A|C|T|T|G|C|T|A|C|A|T|C|A|A|G|G|C|C|G|G|G|C|A|G|C|C|T|G|C|A|G|C|C|G|A|G| 8520
Sbjct  8461  |C|T|A|G|C|T|G|T|G|T|A|A|C|A|C|C|T|C|A|C|T|T|G|C|T|A|C|A|T|C|A|A|G|G|C|C|G|G|G|C|A|G|C|C|T|G|C|A|G|C|C|G|A|G| 8520
Query  8521  |G|G|C|T|C|C|A|G|G|A|C|T|G|C|A|C|A|T|G|C|T|G|T|G|T|G|G|C|G|A|C|G|A|C|T|T|A|G|C|G|T|A|T|C|T|G|T|G|A|A|G|T|G| 8580
Sbjct  8521  |G|G|C|T|C|C|A|G|G|A|C|T|G|C|A|C|A|T|G|C|T|G|T|G|T|G|G|C|G|A|C|G|A|C|T|T|A|G|C|G|T|A|T|C|T|G|T|G|A|A|G|T|G| 8580
Query  8581  |C|G|G|G|G|T|C|C|A|G|G|A|G|A|C|G|C|G|C|G|A|G|C|C|T|G|A|G|A|G|C|T|T|C|A|G|G|A|G|G|C|T|A|T|G|A|C|A|G|G|T|A|C|T| 8640
Sbjct  8581  |C|G|G|G|G|T|C|C|A|G|G|A|G|A|C|G|C|G|C|G|A|G|C|C|T|G|A|G|A|G|C|T|T|C|A|G|G|A|G|G|C|T|A|T|G|A|C|A|G|G|T|A|C|T| 8640
Query  8641  |C|G|G|C|C|C|C|C|C|G|G|G|A|C|C|C|C|C|A|A|C|C|A|A|T|A|C|G|A|C|T|T|G|G|A|G|C|T|T|A|T|A|C|A|T|C|A|T|G|C|T| 8700
Sbjct  8641  |C|G|G|C|C|C|C|C|C|G|G|G|A|C|C|C|C|C|A|A|C|C|A|A|T|A|C|G|A|C|T|T|G|G|A|G|C|T|T|A|T|A|C|A|T|C|A|T|G|C|T| 8700
Query  8701  |C|C|T|C|A|A|C|G|T|G|T|C|A|G|T|C|G|C|C|A|C|A|G|C|G|C|G|T|G|G|A|A|G|A|G|G|T|C|T|A|C|T|A|C|T|T|A|C|C|G|T|G| 8760
Sbjct  8701  |C|C|T|C|A|A|C|G|T|G|T|C|A|G|T|C|G|C|C|A|C|A|G|C|G|C|G|T|G|G|A|A|G|A|G|G|T|C|T|A|C|T|A|C|T|T|A|C|C|G|T|G| 8760
Query  8761  |A|C|C|T|A|A|A|C|C|C|C|C|T|C|G|C|G|A|G|A|G|C|G|C|G|T|G|G|G|A|G|A|G|A|C|A|A|G|A|C|A|C|A|C|T|C|C|A|G|T|C|A|A|T| 8820
Sbjct  8761  |A|C|C|T|A|A|A|C|C|C|C|C|T|C|G|C|G|A|G|A|G|C|G|C|G|T|G|G|G|A|G|A|G|A|C|A|A|G|A|C|A|C|A|C|A|C|T|C|C|A|G|T|C|A|A|T| 8820
Query  8821  |C|C|T|G|G|C|T|A|G|G|C|A|C|A|T|A|T|C|A|T|G|T|T|G|C|C|C|C|A|C|A|C|T|G|T|G|G|G|C|G|A|G|A|T|G|A|T|A|C|T|G|A|T|G|A| 8880
Sbjct  8821  |C|C|T|G|G|C|T|A|G|G|C|A|C|A|T|A|T|C|A|T|G|T|T|G|C|C|C|C|A|C|A|C|T|G|T|G|G|G|C|G|A|G|A|T|G|A|T|A|C|T|G|A|T|G|A| 8880
Query  8881  |C|C|C|A|T|T|C|T|T|A|G|C|G|T|C|C|A|T|A|G|C|A|G|G|A|T|C|A|G|C|T|T|G|A|C|A|G|G|C|T|T|A|A|C|T|G|T|G|A|G|A| 8940
Sbjct  8881  |C|C|C|A|T|T|C|T|T|A|G|C|G|T|C|C|A|T|A|G|C|A|G|G|A|T|C|A|G|C|T|T|G|A|C|A|G|G|C|T|T|A|A|C|T|G|T|G|A|G|A| 8940
Query  8941  |T|C|T|A|C|G|G|A|G|C|T|G|C|T|A|C|T|C|C|A|T|A|A|C|A|C|T|G|G|A|T|C|T|A|C|T|C|C|A|A|T|C|A|T|T|C|A|A|A|G|A|C|T|C| 9000
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Sbjct 8941 |TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC| 9000
Query 9001 |ATGGGCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG| 9060
Sbjct 9001 |ATGGGCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG| 9060
Query 9061 |CATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGAGCTTGAGACACCGGGGCCGGAGCG| 9120
Sbjct 9061 |CATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGAGCTTGAGACACCGGGGCCGGAGCG| 9120
Query 9121 |TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA| 9180
Sbjct 9121 |TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA| 9180
Query 9181 |ACTGGGCTAGTAAAGCAAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT| 9240
Sbjct 9181 |ACTGGGCTAGTAAAGCAAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT| 9240
Query 9241 |TGTCGGTGTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATACAGCGTGTCTCATG| 9300
Sbjct 9241 |TGTCGGTGTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATACAGCGTGTCTCATG| 9300
Query 9301 |CCCGGCCCGCTGGTTCTGGTTTTCCTACTCTCTGCTGCAGGGGTAGGCATCTACC| 9360
Sbjct 9301 |CCCGGCCCGCTGGTTCTGGTTTTCCTACTCTCTGCTGCAGGGGTAGGCATCTACC| 9360
Query 9361 |TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTGTTT| 9420
Sbjct 9361 |TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTGTTT| 9420
Query 9421 |tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt| 9480
Sbjct 9421 |TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT--TTCTTTTTTT| 9478
Query 9481 |tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt| 9498
Sbjct 9479 |TTT-TTTTTCCTTTTTT 9495

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Score = 285 bits (154), Expect = 6e-73
 Identities = 177/187 (94%), Gaps = 6/187 (3%)
 Strand=Plus/Plus

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Query 9418 |tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt| 9474
Sbjct 9461 |TTTTTTTCTTTTTTTTTTTTTTTTTTTCCTTTTTTTTTTTTTTTTTTCTTCTCTC-IT| 9519
Query 9475 |tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt| 9532
Sbjct 9520 |TTTCTCTTCTTTTCTTCTTCTTAAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTA| 9579
Query 9533 |GCTGTGAAAGGTCCTGTAGCCGCATGACTGCAGAGAGTGCTGATCTGGCCTCTCTGCAG| 9592
Sbjct 9580 |GCTGTGAAAGGTCCTGTAGCCGCATGACTGCAGAGAGTGCTGATCTGGCCTCTCTGCAG| 9639
Query 9593 |ATCATGT 9599
Sbjct 9640 |ATCATGT 9646

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>emb|CS541301.1| Sequence 49 from Patent WO2007013882
 Length=9646

Sort alignments for this subject se
 E value Score Percent identity
 Query start position Subject sta

Score = 1.732e+04 bits (9379), Expect = 0.0
 Identities = 9459/9498 (99%), Gaps = 3/9498 (0%)
 Strand=Plus/Plus

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Query 1 |GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAAGTACTG| 60
Sbjct 1 |GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAAGTACTG| 60

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Query	61	TCITCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGACGCCCTCCAGGA	120
Sbjct	61	TCITCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGACGCCCTCCAGGAC	120
Query	121	ccccccTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCTTTTCTGGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCTTTTCTGGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAGAAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAAGTCCCGGGTG	420
Sbjct	361	CTCAAGAAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAAGTCCCGGGTG	420
Query	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTTCGCCGCGAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTTCGCCGCGAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTTCGAACCTTCGAGGTAGACGTGAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTTCGAACCTTCGAGGTAGACGTGAGCCTATCCCCA	540
Query	541	AGGCACGTTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCCTTGGCCCTCTATG	600
Sbjct	541	AGGCACGTTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCCTTGGCCCTCTATG	600
Query	601	GCAATGAGGGTTCGCGGTGGGCGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGCT	660
Sbjct	601	GCAATGAGGGTTCGCGGTGGGCGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA	720
Query	721	CTGTCGGCTTCGCCGACCTCATGGGGTACATACCGCTCTGTCGGCGCCCTCTTGAGAGCG	780
Sbjct	721	CTGTCGGCTTCGCCGACCTCATGGGGTACATACCGCTCTGTCGGCGCCCTCTTGAGAGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACTTCCTGGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGCTGACTG	900
Sbjct	841	GGAACTTCCTGGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCAGCAATTCCTCGGGGCTTTACCATGTACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCAGCAATTCCTCGGGGCTTTACCATGTACCAATGATT	960
Query	961	GCCCTTAATTCGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTTAATTCGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCTTTCGCTTCGCGAGGGTAACGCCTCGAGGTGTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCTTTCGCTTCGCGAGGGTAACGCCTCGAGGTGTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACGAGGACGCGAAACTCCCCACAACGACGCTTCGACGTCATATCGATCTGCTTGTG	1140
Sbjct	1081	CCACGAGGACGCGAAACTCCCCACAACGACGCTTCGACGTCATATCGATCTGCTTGTG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200

Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACGTGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACGTGT	1320
Query	1321	CCCCTACGCGAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAACAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGCGAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAACAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGCGGAAGGTCCTGGTAGTGTCTGCTGCTATTTGCCGGCGTGCAGCGGAAACCCAGC	1500
Sbjct	1441	ACTGGCGGAAGGTCCTGGTAGTGTCTGCTGCTATTTGCCGGCGTGCAGCGGAAACCCAGC	1500
Query	1501	TACCGGGGGAATGCGGGCGCACACGGCTGGGCTTGTGTGCTCCCTTACACAGGGG	1560
Sbjct	1501	TACCGGGGGAATGCGGGCGCACACGGCTGGGCTTGTGTGCTCCCTTACACAGGGG	1560
Query	1561	CCAAGCAGAACTCCAACATGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT	1620
Sbjct	1561	CCAAGCAGAACTCCAACATGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAT	1680
Query	1681	TCAACTCTTTCAGGCTGTCTGAGAGGTTGGCCAGTGCACGCGCTTACCGATTTCGCC	1740
Sbjct	1681	TCAACTCTTTCAGGCTGTCTGAGAGGTTGGCCAGTGCACGCGCTTACCGATTTCGCC	1740
Query	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGCCTCGACGAACGCCCTTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGCCTCGACGAACGCCCTTACTGCT	1800
Query	1801	GGCACTACCTTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCGGTAT	1860
Sbjct	1801	GGCACTACCTTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCGAGCCCGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCTACCT	1920
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Query	1921	ACAGCTGGGGTGCAATGATACGGATGTCTTCGTCCTTAACAACACACAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAATGATACGGATGTCTTCGTCCTTAACAACACACAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
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Query	2041	CCCTTGTGTGTCATCGGAGGGGTGGGCAACAACACCTTGTCTTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCTTGTGTGTCATCGGAGGGGTGGGCAACAACACCTTGTCTTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGTCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGTCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCGGTATAGGCTTTGGCACTATCCTTGATACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCGGTATAGGCTTTGGCACTATCCTTGATACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGTTCGAGCACAGGCTGGAAGCGCGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGTTCGAGCACAGGCTGGAAGCGCGCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAAGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCGTTGCTGTC	2340
Sbjct	2281	CGCGGGGCGAAGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCGTTGCTGTC	2340

Query	2341	TGTCACCACACAGTGGCAGGTCTCTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCA	2400
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Query	2401	CGGGCTCATCCACCTCCACAGAACATGTGGACGTGCAGTACTTGTACGGGTAGGGT	2460
Sbjct	2401	CGGGCTCATCCACCTCCACAGAACATGTGGACGTGCAGTACTTGTACGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCTTG	2520
Query	2521	CAGACGCGCGCTGCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTGCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGGAGCGG	2700
Sbjct	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCTGCTCCTGCTGGCGTTGCCACGCGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCTGCTCCTGCTGGCGTTGCCACGCGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGCGCTGTCTTCTGTCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGCGCTGTCTTCTGTCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCCATTATCAAGCGCTATATCAGCTGGTGCAATGTGGTGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCCATTATCAAGCGCTATATCAGCTGGTGCAATGTGGTGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTC	2940
Query	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTGACACCGGACTCTGGTATTG	3000
Sbjct	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTGACACCGGACTCTGGTATTG	3000
Query	3001	ACATACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTGC	3060
Sbjct	3001	ACATACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCCTGCGAGATC	3240
Query	3241	TGGCGTGGCTGTGGAAACAGTCGTCTTCTCCGGAATGGAGACCAAGCTCATCAGTGGG	3300
Sbjct	3241	TGGCGTGGCTGTGGAAACAGTCGTCTTCTCCGGAATGGAGACCAAGCTCATCAGTGGG	3300
Query	3301	GGGCAGATACGCGCGGTGCGGTGACATCATCAACGGCTTCCCGCTCTCTGCCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACGCGCGGTGCGGTGACATCATCAACGGCTTCCCGCTCTCTGCCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTGCTGG	3420
Query	3421	CGCCCCATACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCCATACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCC	3480

Query	3481	TGACTGGCGGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481		
Sbjct	3481	TGACTGGCGGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAACGGGGCGGAA	3600
Sbjct	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAACGGGGCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601		
Sbjct	3601	CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCCGTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661		
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCCGTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTTACCTGGTACGAGGCACGCCGATGTCTATCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721		
Sbjct	3721	CCTCGGACCTTTTACCTGGTACGAGGCACGCCGATGTCTATCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCGCGGCCAATTCCTACTTTGAAAGGCTTCCTCGGGG	3840
Sbjct	3781		
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCGCGGCCAATTCCTACTTTGAAAGGCTTCCTCGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCCTATTACAGGCGCCGCTGTGCACCC	3900
Sbjct	3841		
Sbjct	3841	GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCCTATTACAGGCGCCGCTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901		
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACAGCAGTGCACAGAGCTTCAGGTGGCCC	4020
Sbjct	3961		
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACAGCAGTGCACAGAGCTTCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCACCGGCAGCGGTAAAGACACCAAGGTCGCCGTCGCTACGCAGCCC	4080
Sbjct	4021		
Sbjct	4021	ACCTGCATGCTCCACCGGCAGCGGTAAAGACACCAAGGTCGCCGTCGCTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTGTGCTGAACCGTGGGCTTTGGTGCTT	4140
Sbjct	4081		
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTGTGCTGAACCGTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATTACCA	4200
Sbjct	4141		
Sbjct	4141	ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATTACCA	4200
Query	4201	CTGGCAGCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGTCTAG	4260
Sbjct	4201		
Sbjct	4201	CTGGCAGCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGTCTAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCTCCACGGATGCCACATCCATCT	4320
Sbjct	4261		
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321		
Sbjct	4321	TGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381		
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441		
Sbjct	4441	TGTCCACCACCGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501		
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561		
Sbjct	4561	TGGTCGATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620

Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTTAGACAAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTTAGACAAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTTGGCACCGGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTTCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGCTGTGCTT	4920
Sbjct	4861	GCCCTCCGGCATGTTTCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCAGGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCAGGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTATGCCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTATGCCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGATGAAGTCACCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGATGAAGTCACCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTGCGCCGACCTGGAGTCTGTACGAGACCTGGGTGCTGTTGGCGGCTGC	5340
Sbjct	5281	CATGCATGTGCGCCGACCTGGAGTCTGTACGAGACCTGGGTGCTGTTGGCGGCTGC	5340
Query	5341	TGGCTGCTGTGCGCCGCTATTGCCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTGTGCGCCGCTATTGCCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCGCCAATCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCGCCAATCAGAGGTTATCA	5580
Query	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCACTGGCCAAACCC	5760

Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGCAGCGTGGACTGGGGAAAG	5880
Sbjct	5821	CCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGCAGCGTGGACTGGGGAAAG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATATCGCCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATATCGCCCGGCACGTTG	6060
Query	6061	GGCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Sbjct	6061	GGCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Query	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGCGGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGCGGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGACCACCTCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGACCACCTCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCCAACTGCCTGGGATTG	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCCAACTGCCTGGGATTG	6360
Query	6361	CCTTTGTGTCTGCCAGCGCGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTGCCAGCGCGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAAAGCCTACACCA	6540
Sbjct	6481	TCGGTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAAAGCCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCTTCTCGCGCGAATATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCTTCTCGCGCGAATATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCGCGTGCAGATCCCATCGCCCGAATTTTACAGAAATTGGAGC	6720
Sbjct	6661	CTGACAATCTTAAATGCGCGTGCAGATCCCATCGCCCGAATTTTACAGAAATTGGAGC	6720
Query	6721	GGGTGCGCTACACAGGTTTGGCGCCCTTGCAAGCCCTTGTCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCTACATAGGTTTGGCGCCCTTGCAAGCCCTTGTCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGTTGGGGTCGCAATTACCTTGCAGAGCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGTTGGGGTCGCAATTACCTTGCAGAGCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900

Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCAGCTGT	6960
Query	6961	CGGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CGGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGCGCGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGCGCGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTGCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCCGACAGAAATTCGCGGAAGTCTCGGAGATTGCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGCGCGGACTACAACCCCCCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TTTGGGCGCGCGCGGACTACAACCCCCCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCG	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCG	7320
Query	7321	CTCGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCTATTCTT	7500
Query	7501	CCATGCCCCCGTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCGTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACATGCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACATGCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTCACGCACTGCTTGGC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTCACGCACTGCTTGGC	7740
Query	7741	AAAGGCAGAGAAGGTACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAGC	7800
Sbjct	7741	AAAGGCAGAGAAGGTACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAGC	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGATAGAG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGATAGAG	7860
Query	7861	AAGCTTGACGCTTGACGCCGCCACATTACGCCAAATCCAAGTTTGGCTATGGGCAAAAG	7920
Sbjct	7861	AAGCTTGACGCTTGACGCCGCCACATTACGCCAAATCCAAGTTTGGCTATGGGCAAAAG	7920
Query	7921	ACGTCGGTTGCCATGCCAGAAAGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTC	7980
Sbjct	7921	ACGTCGGTTGCCATGCCAGAAAGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040

Query	8041	TTACAGCCTGAGAAAGGGGGTCGTAAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTACAGCCTGAGAAAGGGGGTCGTAAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCTCGGCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCTCGGCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGGACTCCA	8280
Sbjct	8221	CGTGGAAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCCTCACTTGTACATCAAGGCCCGGGCAGCCTGTGCGAGCCGAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCCTCACTTGTACATCAAGGCCCGGGCAGCCTGTGCGAGCCGAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACCGGAGGCTATGACCAAGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACCGGAGGCTATGACCAAGTACT	8640
Query	8641	CCGCCCCCCCCGGGGACCCCCACAACCAAGATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCGGGGACCCCCACAACCAAGATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCTTACACCCCTTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATT	8820
Sbjct	8761	ACCTTACACCCCTTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATATCATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATATCATGA	8880
Query	8881	CCCATTTCTTTAGCGTCCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACCTGTGAGA	8940
Sbjct	8881	CCCATTTCTTTAGCGTCCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACCTGTGAGA	8940
Query	8941	TCACGGAGCCTGCTACTCCATAGAACCCTGGATCTACTTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCACGGAGCCTGCTACTCCATAGAACCCTGGATCTACTTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCTCAGCGCAATTTTCACTCCACAGTTACTCTCCAGGTGAATCAATAGGTGGCGG	9060
Sbjct	9001	ATGGCTCAGCGCAATTTTCACTCCACAGTTACTCTCCAGGTGAATCAATAGGTGGCGG	9060
Query	9061	CATGCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCCGGAGCG	9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180

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Query  9181  ACTGGGCAGTAAGAACAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT  9240
      |||
Sbjct  9181  ACTGGGCAGTAAGAACAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT  9240

Query  9241  TGTCGGGTGGTTTCACGGCTGGCTACAGCGGGGAGACATTATACAGCGTGTCTCATG  9300
      |||
Sbjct  9241  TGTCGGGTGGTTTCACGGCTGGCTACAGCGGGGAGACATTATACAGCGTGTCTCATG  9300

Query  9301  CCCGGCCCCGCTGGTTCTGGTTTTCCTACTCTGCTCGCTGCAGGGTAGGCATCTACC  9360
      |||
Sbjct  9301  CCCGGCCCCGCTGGTTCTGGTTTTCCTACTCTGCTCGCTGCAGGGTAGGCATCTACC  9360

Query  9361  TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTG+ttt  9420
      |||
Sbjct  9361  TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTGTTT  9420

Query  9421  tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt  9480
      |||
Sbjct  9421  TTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTT  9478

Query  9481  tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt  9498
      |||
Sbjct  9479  TTT-TTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTT  9495

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Score = 285 bits (154), Expect = 6e-73
 Identities = 177/187 (94%), Gaps = 6/187 (3%)
 Strand=Plus/Plus

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Query  9418  tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt  9474
      |||
Sbjct  9461  TTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTT  9519

Query  9475  tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt  9532
      |||
Sbjct  9520  TTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTT  9579

Query  9533  GCTGTGAAAGGTCCTGAGCCGCACTGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAG  9592
      |||
Sbjct  9580  GCTGTGAAAGGTCCTGAGCCGCACTGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAG  9639

Query  9593  ATCATGT  9599
      |||
Sbjct  9640  ATCATGT  9646

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>dbj|BD069982.1| Functional DNA clone for hepatitis C virus (HCV) and uses thereof
 Length=9646

Sort alignments for this subject se
 E value Score Percent identity
 Query start position Subject sta

Score = 1.732e+04 bits (9379), Expect = 0.0
 Identities = 9459/9498 (99%), Gaps = 3/9498 (0%)
 Strand=Plus/Plus

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Query  1  GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCCTGTGAGGAAGTACTG  60
      |||
Sbjct  1  GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCCTGTGAGGAAGTACTG  60

Query  61  TCITCAGCGAGAAAGCGCTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA  120
      |||
Sbjct  61  TCITCAGCGAGAAAGCGCTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA  120

Query  121  ccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG  180
      |||
Sbjct  121  CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG  180

Query  181  GAGCAGCCGGGTCTTTCTTGGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCCC  240
      |||
Sbjct  181  GAGCAGCCGGGTCTTTCTTGGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCCC  240

Query  241  GCAAGACTGCTAGCCGAGTAGTGTGGTTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG  300
      |||
Sbjct  241  GCAAGACTGCTAGCCGAGTAGTGTGGTTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG  300

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Query	301	GTGCTTGCAGAGTGCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGAGTGCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC	360
Query	361	CTCAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAAGTCCCGGGTG	420
Sbjct	361	CTCAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAAGTCCCGGGTG	420
Query	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Sbjct	481	GCGGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGTACCCCTGGCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGTACCCCTGGCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA	720
Query	721	CTGTGCGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGCG	780
Sbjct	721	CTGTGCGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCCGTGGTGTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACCTTCCGTGGTGTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGGCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCAGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCAGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCTTGACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCTTGACACTCCGGGGTGTG	1020
Query	1021	TCCTTTCGCTTCGCGAGGGTAACGCCTCGAGGTGTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCTTTCGCTTCGCGAGGGTAACGCCTCGAGGTGTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTG	1140
Sbjct	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTG	1140
Query	1141	GGAGCGCCACCCCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGAGCAGCAGAACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGAGCAGCAGAACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGATCCCAAGCCATCATGGACA	1380
Sbjct	1321	CCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGATCCCAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGA	1440

Query	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTATTTGCCGGCGTCGACGCGAAACCCAGC	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTATTTGCCGGCGTCGACGCGAAACCCAGC	1500
Query	1501	TACCGGGGGAATGCGCGGCCGACACGGCTGGGCTTGTGTGCTTCCTTACACAGGGG	1560
Sbjct	1501	TACCGGGGGAATGCGCGGCCGACACGGCTGGGCTTGTGTGCTTCCTTACACAGGGG	1560
Query	1561	CCAAGCAGAACTCCAACATGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT	1620
Sbjct	1561	CCAAGCAGAACTCCAACATGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCAAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCAGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCAGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCCTATCAGTTATGCCAACGGAAGCGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCCTATCAGTTATGCCAACGGAAGCGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCTCCAAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGCCCGGTAT	1860
Sbjct	1801	GGCACTACCTCCAAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCTTAACAACACACAGGCCACCGTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCTTAACAACACACAGGCCACCGTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCTTGTGTATCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCTTGTGTATCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCACTGATTGCTTCC	2100
Query	2101	GCAAAATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGCAGGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGCAGGCTGGAAGCGGCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAAGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAAGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCGTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCTTCCGTGTTCTTTACAGACCTTGCAGCCCTTGCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCTTCCGTGTTCTTTACAGACCTTGCAGCCCTTGCCA	2400
Query	2401	CCGGCTCATCCACCTTCACAGAACATTGTGGACGTGCGAGTACTTGTACGGGGTAGGT	2460
Sbjct	2401	CCGGCTCATCCACCTTCACAGAACATTGTGGACGTGCGAGTACTTGTACGGGGTAGGT	2460
Query	2461	CAAGCATCGGCTCCTGGGCCATTAAATGGGAGTACGTGTTCTTCTGTTCTCTGCTTG	2520
Sbjct	2461	CAAGCATCGGCTCCTGGGCCATTAAATGGGAGTACGTGTTCTTCTGTTCTCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGCGG	2580

Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCCTCTCTCTGCTCTCTGCTGGCGTGTGCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCCTCTCTCTGCTCTCTGCTGGCGTGTGCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGCGCGCGTGTCTTCTGTGCGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGCGCGCGTGTCTTCTGTGCGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCGTCC	2940
Query	2941	GGGGGGGGCGCGCATGCCGTCATCTTACTCATGTGTGTGACACCGACTCTGGTATTG	3000
Sbjct	2941	GGGGGGGGCGCGCATGCCGTCATCTTACTCATGTGTGTGACACCGACTCTGGTATTG	3000
Query	3001	ACATCACCAACTACTCTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAACTACTCTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCTGTGCGGCTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCTGTGCGGCTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAGATC	3240
Query	3241	TGGCGTGGCTGTGGAACCACTGCTCTTCTCCGAAATGGAGACCAAGCTCATCAGTGGG	3300
Sbjct	3241	TGGCGTGGCTGTGGAACCACTGCTCTTCTCCGAAATGGAGACCAAGCTCATCAGTGGG	3300
Query	3301	GGCGAGATACGCCCGGTGCGGTGACATCATCAACGGCTTGCCTCTCTGCCCCTAGGG	3360
Sbjct	3301	GGCGAGATACGCCCGGTGCGGTGACATCATCAACGGCTTGCCTCTCTGCCCCTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTGTCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTGTCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACGGGGCGGAA	3600
Sbjct	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACGGGGCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCGCTCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCGCTCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGCT	3720

Query	3721	CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTGCGCCCGGCCAATTCTCTACTTGAAGAGGCTCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTGCGCCCGGCCAATTCTCTACTTGAAGAGGCTCTCGGGGG	3840
Query	3841	GTCCTGTGTGTGCCCGCGGGACACGCCGTGGGCCTATTACAGGCGCCGGTGTGCACCC	3900
Sbjct	3841	GTCCTGTGTGTGCCCGCGGGACACGCCGTGGGCCTATTACAGGCGCCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCTCTCCACAGCAGTCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCTCTCCACAGCAGTCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCACCGGACGGTAAGAGCACCAAGGTCGCCGTGCGTACGACAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCACCGGACGGTAAGAGCACCAAGGTCGCCGTGCGTACGACAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGTCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGTCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAAATTACCA	4200
Query	4201	CTGGCAGCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGTCTAG	4260
Sbjct	4201	CTGGCAGCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGTCTAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGTTGCTC	4440
Query	4441	TGTCCACCACCGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGATTGGGCATCAATGCCGTGGCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGATTGGGCATCAATGCCGTGGCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGCGATGTTGTGTCGTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGG	4680
Sbjct	4621	CGACCAGCGCGATGTTGTGTCGTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCATACCTTTACCATTTAGACAAACACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCATACCTTTACCATTTAGACAAACACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	CGCGGGGCGAGACTGCGAGGGGAAGCCAGGCATCTATAGATTGTGGACACCGGGGAGC	4860
Sbjct	4801	CGCGGGGCGAGACTGCGAGGGGAAGCCAGGCATCTACAGATTGTGGACACCGGGGAGC	4860

Query	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCAGGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCAGGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAAGTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAAGTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGTATCGGCTTAAACCCACCTCCATGGGCGCAACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGTATCGGCTTAAACCCACCTCCATGGGCGCAACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGATGAAGTACCCCTGACGCACCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGATGAAGTACCCCTGACGCACCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTGCGGCCGACCTGGAGTGTGTACGAGACCTGGGTGCTGTTGGCGGCTGC	5340
Sbjct	5281	CATGCATGTGCGGCCGACCTGGAGTGTGTACGAGACCTGGGTGCTGTTGGCGGCTGC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATTG	5400
Query	5401	TCTTGTCGGGAAGCCGCGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCGGGAAGCCGCGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCATCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCATCAGAGGTTATCA	5580
Query	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTGCCGCCCGCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTGCCGCCCGCGGTGCCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTGGATCGGGGAAGG	5880
Sbjct	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTGGATCGGGGAAGG	5880
Query	5881	TCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTGTAGCATTCA	5940
Sbjct	5881	TCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTGTAGCATTCA	5940
Query	5941	AGATCATGACCGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCATCC	6000
Sbjct	5941	AGATCATGACCGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCATCC	6000

Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGGCACGTTG	6060
Query	6061	GCCCGGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCAGCAGCTACGTGCGGAGAGCGATGAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCAGCAGCTACGTGCGGAGAGCGATGAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGCGCAGTCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGCGCAGTCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCCAACTGCCTGGGATTG	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCCAACTGCCTGGGATTG	6360
Query	6361	CCTTTGTGTCTGCCAGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTGCCAGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCTAGGACCTCAGGAACATGTGGAGTGGGACGTTCCCATTAACGCCCTACACCA	6540
Sbjct	6481	TCGGTCTAGGACCTCAGGAACATGTGGAGTGGGACGTTCCCATTAACGCCCTACACCA	6540
Query	6541	CGGGCCCCGTGATCTCCCTTCTGCGCCGAACATATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGATCTCCCTTCTGCGCCGAACATATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGAGGAGGATATCAT	6780
Sbjct	6721	GGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGAGGAGGATATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGTTGGGTCGCAATTACCTTGCAGAGCCGAAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGTTGGGTCGCAATTACCTTGCAGAGCCGAAACCGG	6840
Query	6841	ACGTAGCCGTGTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGCGG	6900
Sbjct	6841	ACGTAGCCGTGTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGCGG	6900
Query	6901	GGAGAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCAACGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCAACGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATGACGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATGACGGG	7140

Query	7141	AGGTC TC CGTAC CTG CAGAA AT TCTG CGGAAGTCT CGGAGATT CGCCCGGGCCCT GCCCG	7200
Sbjct	7141	AGGTC TC CGTAC CCG CAGAA AT TCTG CGGAAGTCT CGGAGATT CGCCCGGGCCCT GCCCG	7200
Query	7201	CTTGGGCGCGGCGG GACTAC AACCC CCGCTAGT AGAGACGT GGAAAAAGCCT GACTACG	7260
Sbjct	7201	TTTGGGCGCGGCGG GACTAC AACCC CCGCTAGT AGAGACGT GGAAAAAGCCT GACTACG	7260
Query	7261	AACCACCT GTGGT C ATGGCT GCCCGCT ACCACCT CCACGGT CCCCCT CTGTGCCT CCCG	7320
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Query	7321	CTCGGAAAAAGCGTAC GGTGGT CTC ACCGAATCA ACCCTATCTACT GCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTAC GGTGGT CTC ACCGAATCA ACCCTATCTACT GCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTT TGGCAGCT CCTCAACT TCGGGCATTAC GGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTT TGGCAGCT CCTCAACT TCGGGCATTAC GGGCGACAATACGACAA	7440
Query	7441	CATCCTCT GAGCCCGCCCTT CTGGCTG GAGGAGCT CCGACGTT GAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCT GAGCCCGCCCTT CTGGCTG GAGGAGCT CCGACGTT GAGTCCTATTCTT	7500
Query	7501	CCATG GAGGAGCT GAGGGGAGCCT GGGGATCC GGATCTC ACGACACGGGTCAT GGTTCGA	7560
Sbjct	7501	CCATG GAGGAGCT GAGGGGAGCCT GGGGATCC GGATCTC ACGACACGGGTCAT GGTTCGA	7560
Query	7561	CGGT CAGTAGT GGGCGGACACG GAAGATGT CGTGTGCT GCTCAATGCTTATTCTCTGGA	7620
Sbjct	7561	CGGT CAGTAGT GGGCGGACACG GAAGATGT CGTGTGCT GCTCAATGCTTATTCTCTGGA	7620
Query	7621	CAGGCGCACT CGTCACCC CGTGCCT GCGGAAGAACAAAAC TGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACT CGTCACCC CGTGCCT GCGGAAGAACAAAAC TGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGT TGCTACGCCAT CACAA TCTGGTGTATTCC ACCACCTTACGCGAGT GCTTGGC	7740
Sbjct	7681	GCAACTCGT TGCTACGCCAT CACAA TCTGGTGTATTCC ACCACCTTACGCGAGT GCTTGGC	7740
Query	7741	AAAGGCAGAGAAGT CACATTTGACAGACT GCAAGTTCTGGACAGCCATTAC CAGGAGC	7800
Sbjct	7741	AAAGGCAGAGAAGT CACATTTGACAGACT GCAAGTTCTGGACAGCCATTAC CAGGAGC	7800
Query	7801	TGCTCAAGGAGGT CAAGCAGCGCGT CAAAAGTGAAGGCTAACT TGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGT CAAGCAGCGCGT CAAAAGTGAAGGCTAACT TGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTG AGCGCCCA CATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTG AGCGCCCA CATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTC CGT TGCCATG CCAGAAAGGCGTAG CCACATCAACT CCGTGTGGAAGACCTTC	7980
Sbjct	7921	ACGTC CGT TGCCATG CCAGAAAGGCGTAG CCACATCAACT CCGTGTGGAAGACCTTC	7980
Query	7981	TGGAAGACAGTGA ACACCAATAGACACT ACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
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Query	8041	TTACGCCTGAGAAGGGGGT CGTAAGCCAGCTCGTCTCATCGTGT TCCCGACCTGGGGG	8100
Sbjct	8041	TTACGCCTGAGAAGGGGGT CGTAAGCCAGCTCGTCTCATCGTGT TCCCGACCTGGGGG	8100
Query	8101	TGCGCGTGTG CGAGAGAATGGCCCTGTACGACGTGGT TAGCAAGCTCC CCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTG CGAGAGAATGGCCCTGTACGACGTGGT TAGCAAGCTCC CCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACG GATTCCAATACTC ACGAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACG GATTCCAATACTC ACGAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAAGTCCAAGAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTT TGACTCCA	8280
Sbjct	8221	CGTGGAAAGTCCAAGAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTT TGACTCCA	8280

Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
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Sbjct	8401	CCAATTCAAGGGGGGAAAACTGCGGTACCGCAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGCAGCACTTAGTCGTTATCTGTGAAAGTG	8580
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Query	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGGAAGGCTATGACCAAGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGGAAGGCTATGACCAAGTACT	8640
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Sbjct	8701	CCTCCAACGTGTGCTAGTCGCCACGACGCGCTGGAAGAGGGGCTACTACCTTACCCGTG	8760
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Sbjct	8761	ACCCFACACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATT	8820
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Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCTCCACACTGTGGGCGAGGATGATATCATGA	8880
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Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGTGAAATCAATAGGTTGGCCG	9060
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGTGAAATCAATAGGTTGGCCG	9060
Query	9061	CATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGAGCTTGAGAGACCCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGAGCTTGAGAGACCCGGGCCCGGAGCG	9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Query	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGTGGCCGGCTGGACT	9240
Sbjct	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGTGGCCGGCTGGACT	9240
Query	9241	TGTCGGGTGTGTTACGGCTGGCTACAGCGGGGAGACATTATACAGCGGTGTCCTATG	9300
Sbjct	9241	TGTCGGGTGTGTTACGGCTGGCTACAGCGGGGAGACATTATACAGCGGTGTCCTATG	9300
Query	9301	CCCGCCCCCGCTGGTTCTGGTTTTGCGCTACTCTGCTCGCTGACGGGGTAGGCATCTACC	9360
Sbjct	9301	CCCGCCCCCGCTGGTTCTGGTTTTGCGCTACTCTGCTCGCTGACGGGGTAGGCATCTACC	9360
Query	9361	TCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTCTCTG	9420
Sbjct	9361	TCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAGGCCATTCTCTGTTT	9420

Score = 285 bits (154), Expect = 6e-73
Identities = 177/187 (94%), Gaps = 6/187 (3%)
Strand=Plus/Plus

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>gb|AR110828.1|AR110828 Sequence 1 from patent US 6127116
Length=9646
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Sort alignments for this subject sequence
E value   Score   Percent identity
Query start position   Subject start position
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Score = 1.732e+04 bits (9379), Expect = 0.0
Identities = 9459/9498 (99%), Gaps = 3/9498 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCTTGATGGGGGCGACATCCACCATGAATCACTCCCTGTGAGGAACACTGTG	60
Sbjct	1	GCCAGCCCTTGATGGGGGCGACATCCACCATGAATCACTCCCTGTGAGGAACACTGTG	60
Query	61	TCTTCACGCAGAAAGCGTCTTAGCATGCGGTAGTATGAGTGTCTGTCAGCCTCCAGGAC	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTTAGCATGCGGTAGTATGAGTGTCTGTCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCTTCTTGGATAAACCCGCTCAATGCCCTGGAGATTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCTTCTTGGATAAACCCGCTCAATGCCCTGGAGATTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCAGTAGTGTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCAGTAGTGTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGAGTGCCCCGGGAGTCTCTGTAGACCGTGACCAATGAGCAGGAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGAGTGCCCCGGGAGTCTCTGTAGACCGTGACCAATGAGCAGGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACAAACGTAACCAACCAAGTCGCCACAGGACGCTCAAGTTCCTGGGTG	420
Sbjct	361	CTCAAAGAAAAACAAACGTAACCAACCAAGTCGCCACAGGACGCTCAAGTTCCTGGGTG	420
Query	421	GCGGTGAGTCTGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTGAGTCTGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGGACGAGGAAAGACTTCGAGCGGTGCAACCTCGAGGTAGAGCTCAGCCTATCCCCA	540

Sbjct	481	GC	GC	GAC	GAG	GAG	AAG	AT	TCC	GAG	CGG	TC	GCA	ACCT	TC	GAG	G	TAG	AC	G	T	CAG	CC	TAT	CC	CC	A	540			
Query	541	AG	GC	AC	GT	TC	GG	CC	GAG	GG	CAG	GAC	CT	GG	GC	TAC	GC	CC	GG	TAC	CC	T	TG	GC	CC	CT	TAT	G	600		
Sbjct	541	AG	GC	AC	GT	TC	GG	CC	GAG	GG	CAG	GAC	CT	GG	GC	TAC	GC	CC	GG	TAC	CC	T	TG	GC	CC	CT	TAT	G	600		
Query	601	GCA	AT	TAG	GG	GT	TG	CG	GG	TGG	CG	GAT	TG	CT	CCT	GT	CT	CC	CG	TGG	CT	T	CG	GC	CT	TAG	T	G	660		
Sbjct	601	GCA	AT	TAG	GG	GT	TG	CG	GG	TGG	CG	GAT	TG	CT	CCT	GT	CT	CC	CG	TGG	CT	T	CG	GC	CT	TAG	T	G	660		
Query	661	GG	GG	CCCC	CAC	AG	AC	CCCC	CG	CG	TAG	TC	GC	GCA	AT	T	TG	GG	TAA	GG	TCA	T	C	G	A	TAC	CC	CT	T	720	
Sbjct	661	GG	GG	CCCC	CAC	AG	AC	CCCC	CG	CG	TAG	TC	GC	GCA	AT	T	TG	GG	TAA	GG	TCA	T	C	G	A	TAC	CC	CT	T	720	
Query	721	CG	TG	CG	GC	TC	TC	CG	CA	CT	CAT	TG	GG	TAC	AT	AC	CG	CT	CG	TC	CG	CC	CT	CT	TG	GA	GG	CG	G	780	
Sbjct	721	CG	TG	CG	GC	TC	TC	CG	CA	CT	CAT	TG	GG	TAC	AT	AC	CG	CT	CG	TC	CG	CC	CT	CT	TG	GA	GG	CG	G	780	
Query	781	CT	GC	AG	GG	CC	TG	GC	CA	TG	GC	GT	TC	CG	GG	TT	CT	GGA	AG	CG	GC	TGA	AA	TAT	GCA	AC	AG	A	840		
Sbjct	781	CT	GC	AG	GG	CC	TG	GC	CA	TG	GC	GT	TC	CG	GG	TT	CT	GGA	AG	CG	GC	TGA	AA	TAT	GCA	AC	AG	A	840		
Query	841	GGA	AC	CT	T	CC	TG	GT	TG	CT	CT	T	CT	CT	AT	CT	T	CC	T	TC	GC	CC	TG	CT	CT	TG	CC	T	G	900	
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Query	901	TG	CC	CG	CT	T	CAG	CT	TAC	CA	AG	TG	CG	CA	AT	T	CC	T	CG	GG	CT	T	TAC	CA	TG	CA	CA	AT	G	960	
Sbjct	901	TG	CC	CG	CT	T	CAG	CT	TAC	CA	AG	TG	CG	CA	AT	T	CC	T	CG	GG	CT	T	TAC	CA	TG	CA	CA	AT	G	960	
Query	961	GC	CC	TAA	CT	CG	AT	TAT	TG	TG	TAC	GAG	CG	CG	CG	AT	G	CC	AT	C	CT	G	C	A	CT	CC	GG	GT	G	1020	
Sbjct	961	GC	CC	TAA	CT	CG	AT	TAT	TG	TG	TAC	GAG	CG	CG	CG	AT	G	CC	AT	C	CT	G	C	A	CT	CC	GG	GT	G	1020	
Query	1021	TC	CC	T	TG	CG	TT	TC	GC	GAG	GG	TAA	CG	CC	T	CAG	GT	T	TG	GG	TG	CG	GG	TGA	AC	CC	CA	CG	T	G	1080
Sbjct	1021	TC	CC	T	TG	CG	TT	TC	GC	GAG	GG	TAA	CG	CC	T	CAG	GT	T	TG	GG	TG	CG	GG	TGA	AC	CC	CA	CG	T	G	1080
Query	1081	CC	AC	CAG	GG	AC	CG	CA	AA	CT	CCCC	CA	AC	GC	CAG	CT	TC	GAC	GT	CA	TAT	TC	GAT	TC	GT	TT	TC	G	1140		
Sbjct	1081	CC	AC	CAG	GG	AC	CG	CA	AA	CT	CCCC	CA	AC	GC	CAG	CT	TC	GAC	GT	CA	TAT	TC	GAT	TC	GT	TT	TC	G	1140		
Query	1141	GG	AG	CG	CC	AC	CC	CT	CT	GT	CG	CC	CT	CT	AC	GT	GG	GG	GAC	CT	G	TC	GG	GT	CT	GT	TT	CT	G	1200	
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Sbjct	1201	TT	GG	TCA	ACT	GT	TT	TAC	CT	TCT	CT	CC	AG	GC	GC	CA	TG	GC	AG	CA	GC	AA	GA	CT	GCA	AA	TG	TT	G	1260	
Query	1261	CT	AT	CT	AT	TC	CC	GC	CA	TATA	AAC	GG	GT	CAT	CG	CA	TG	GC	AT	GG	GAT	AT	GAT	GAT	GA	AA	CT	GG	T	1320	
Sbjct	1261	CT	AT	CT	AT	TC	CC	GC	CA	TATA	AAC	GG	GT	CAT	CG	CA	TG	GC	AT	GG	GAT	AT	GAT	GAT	GA	AA	CT	GG	T	1320	
Query	1321	CC	CC	TAC	GG	CAG	CG	TT	TG	GT	TAG	CT	CAG	CT	GCT	CG	GC	TCC	CA	AA	GC	CA	TAT	GG	GA				1380		
Sbjct	1321	CC	CC	TAC	GG	CAG	CG	TT	TG	GT	TAG	CT	CAG	CT	GCT	CG	GC	TCC	CA	AA	GC	CA	TAT	GG	GA				1380		
Query	1381	TG	AT	CG	CT	GG	TC	CA	CT	AG	GG	GAG	T	CCT	TG	GC	GG	GC	CAT	AG	CG	TAT	TT	T	CC	AT	GG	T	G	1440	
Sbjct	1381	TG	AT	CG	CT	GG	TC	CA	CT	AG	GG	GAG	T	CCT	TG	GC	GG	GC	CAT	AG	CG	TAT	TT	T	CC	AT	GG	T	G	1440	
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Query	1501	TC	AC	CG	GG	GAA	AT	TG	CG	GC	CG	CAC	CA	CG	GC	TG	GG	CT	TG	TG	CT	TC	CT	TAC	AC	AG	GC	G	1560		
Sbjct	1501	TC	AC	CG	GG	GAA	AT	TG	CG	GC	CG	CAC	CA	CG	GC	TG	GG	CT	TG	TG	CT	TC	CT	TAC	AC	AG	GC	G	1560		
Query	1561	CCA	AG	CAGA	AAC	AT	CCA	ACT	GAT	CA	AC	CA	CA	CG	CAG	TG	GC	AC	AT	CA	AT	AG	CA	CG	GC				1620		
Sbjct	1561	CCA	AG	CAGA	AAC	AT	CCA	ACT	GAT	CA	AC	CA	CA	CG	CAG	TG	GC	AC	AT	CA	AT	AG	CA	CG	GC				1620		
Query	1621	TGA	AT	TG	CA	AT	GAA	AG	CC	TTA	AC	CC	GG	CT	TG	GT	TAG	CA	GG	GC	T	TT	TAT	CA	CA	CA	AA	T	1680		

Sbjct	1621	TGAAC	TGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTT	CAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCGCTTACCGATT	1740
Sbjct	1681	TCAACTCTT	CAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCGCTTACCGATT	1740
Query	1741	AGGGCTGGGGT	CTCTATCAGTTATGCCAACGGAAGCGGCTTGCAGAACGCGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGT	CTCTATCAGTTATGCCAACGGAAGCGGCTTGCAGAACGCGCCCTACTGCT	1800
Query	1801	GGCACTACCC	TCCAAGACCTTGTGGCATTGTGCCCGCAAAGACGCTGTGTGGCCGGTAT	1860
Sbjct	1801	GGCACTACCC	TCCAAGACCTTGTGGCATTGTGCCCGCAAAGACGCTGTGTGGCCGGTAT	1860
Query	1861	ATTGCTT	CACCTCCAGCCCGTGGTGGTGGGAACGACGAGGTCGGGCGCGCTACCT	1920
Sbjct	1861	ATTGCTT	CACCTCCAGCCCGTGGTGGTGGGAACGACGAGGTCGGGCGCGCTACCT	1920
Query	1921	ACAGCTGGGG	TGCAATGATACGGATGTCTTCGTCTTAAACAACACACAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGG	TGCAATGATACGGATGTCTTCGTCTTAAACAACACACAGGCCACCGCTGG	1980
Query	1981	GCAATTGGT	TTCGGTTGTACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGT	TTCGGTTGTACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCTTGTGT	CATCGGAGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCTTGTGT	CATCGGAGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACTCC	CGGAAGCCACATACTCTCGGTGCGGCTCCGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATC	CGGAAGCCACATACTCTCGGTGCGGCTCCGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGT	CGACTACCGTATAGGCTTTGGCACTATCCTTGACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGT	CGACTACCGTATAGGCTTTGGCACTATCCTTGACCATCAATTACACCATAT	2220
Query	2221	TCAAAGT	CAGGATGTACGTGGGAGGGTTCGAGCACAGGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGT	CAGGATGTACGTGGGAGGGTTCGAGCACAGGCTGGAAGCGGCTGCAACTGGA	2280
Query	2281	CGCGGGG	CGAAGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCGTTGCTGC	2340
Sbjct	2281	CGCGGGG	CGAAGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCCATGCTGC	2340
Query	2341	TGTCCACC	CACACAGTGGCAGGTCTTCCGTGTTCTTTCACGACCTTGCAGCCTTGTTCA	2400
Sbjct	2341	TGTCCACC	CACACAGTGGCAGGTCTTCCGTGTTCTTTCACGACCTTGCAGCCTTGTTCA	2400
Query	2401	CCGGCTC	CATCCACCTTCCACAGAACATTGTGGACGTGCAGTACTTGTACGGGTAGGGT	2460
Sbjct	2401	CCGGCTC	CATCCACCTTCCACAGAACATTGTGGACGTGCAGTACTTGTACGGGTAGGGT	2460
Query	2461	CAAGCAT	CGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTTCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCAT	CGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTTCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCG	CGCTGCTCCTGCTTGTGGATGATGTTACTACATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCG	CGCGTCTGCTCCTGCTTGTGGATGATGTTACTACATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGA	CACTCGTAATACTCAATGCAGCATCCCTGGCGGAGCGACGCTTGTGT	2640
Sbjct	2581	CTTTGGAGA	CACTCGTAATACTCAATGCAGCATCCCTGGCGGAGCGACGCTTGTGT	2640
Query	2641	CCTTCTC	TGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGAGGCGG	2700
Sbjct	2641	CCTTCTC	TGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGAGGCGG	2700
Query	2701	TCTACGCC	CTCTACGGGATGTGGCCTCTCCTCTGCTCCTGTGGCGTTGCCCTACGCGGG	2760
Sbjct	2701	TCTACGCC	CTCTACGGGATGTGGCCTCTCCTCTGCTCCTGTGGCGTTGCCCTACGCGGG	2760
Query	2761	CATACGCA	CTGGACGGAAGTGGCCGCGTCTGTGTGGCGCGTGTGTTCTTGTGCGGTTAA	2820

Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGCGTGTGTTCTTGTTCGGGTAA	2820
Query	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGCGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTACATCAGCTGGTGCATGTGGTGCGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCGCTC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCGCTC	2940
Query	2941	GGGGGGGGCGCGCATGCCGTCATCTTACTCATGTGTGTAGTACACCGACCTGGTATTG	3000
Sbjct	2941	GGGGGGGGCGCGCATGCCGTCATCTTACTCATGTGTGTGTAGTACACCGACTCTGGTATTG	3000
Query	3001	ACATACCAAACCTACTCTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACCTACTCTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCTACTTCTGTGCGCGTTCAAGGCCCTTTCGGGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCTACTTCTGTGCGCGTTCAAGGCCCTTTCGGGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAGATC	3240
Query	3241	TGGCGTGGCTGTGGAAACAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCAGTGGG	3300
Sbjct	3241	TGGCGTGGCTGTGGAAACAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCAGTGGG	3300
Query	3301	GGCGAGATACGCCCGGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGATGG	3360
Sbjct	3301	GGCGAGATACGCCCGGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGATGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTGTCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTGTCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACAGGGCGCGAA	3600
Sbjct	3541	AAACCTTCTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACAGGGCGCGAA	3600
Query	3601	CGAGGACCATCGCATACCCAAAGGTCCTGTATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATACCCAAAGGTCCTGTATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCGCTCTCTCAAGGTTCCGCTCATTTGACACCTTGTAACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCGCTCTCTCAAGGTTCCGCTCATTTGACACCTTGTAACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACTGTGTCACGAGGCACGCCGATGTCAATCCCGTGGCCGCGGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACTGTGTCACGAGGCACGCCGATGTCAATCCCGTGGCCGCGGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCGGCCCAATTCTACTTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCGGCCCAATTCTACTTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCTATTACAGGCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCTATTACAGGCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTTAGGGAACCAATGAGAT	3960

Sbjct	3901	GTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTGCCACCGGAGCGGTAAAGACACCAAGGTCGCCGTCGCTACGACGCC	4080
Sbjct	4021	ACCTGCATGCTGCCACCGGAGCGGTAAAGACACCAAGGTCGCCGTCGCTACGACGCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGTCTCAACCCCTCTGTTGTCTGAACCGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGTCTCAACCCCTCTGTTGTCTGAACCGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGCGGTTGATCTTAATATCAGGACCGGGGTGAGACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGCGGTTGATCTTAATATCAGGACCGGGGTGAGACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGTCTAG	4260
Sbjct	4201	CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGTCTAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACTGTCTTGACCAAGCAGAGACTCGCGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACTGTCTTGACCAAGCAGAGACTCGCGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTGCCATCTTAACATCGAGGAGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTGCCATCTTAACATCGAGGAGTTGCTC	4440
Query	4441	TGTCACCAACCGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCACCAACCGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACACGCGGCGATGTTGTCTGTCTGTGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACACGCGGCGATGTTGTCTGTCTGTGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCCTACCTTTACCATTTAGACAACCAACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCCTACCTTTACCATTTAGACAACCAACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGACCCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGACCCGGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTCTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCTCCGGCATGTTCTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTACGCGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTACGCGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTCCCTTACCTGG	5100

Sbjct	5041	ATATAGATGCCACTTTCATATCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTGTTGATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTGTTGATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGATGAAGTACACCTGACGACCCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGATGAAGTACACCTGACGACCCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTGCGGCCGACCTGGAGTGTGTCACGAGCAGCTGGGTGCTGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTGCGGCCGACCTGGAGTGTGTCACGAGCAGCTGGGTGCTGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGATTG	5400
Query	5401	TCTTGTCGGGAAGCCGCGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCGGGAAGCCGCGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTGCGCGCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTGCGCGCCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTGGACTGGGGAAAGG	5880
Sbjct	5821	CTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTGGACTGGGGAAAGG	5880
Query	5881	TCCTCGTGGACATTCTTTCAGGGATATGGCGCGGGCGTGGCGGGAGCTCTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTTCAGGGATATGGCGCGGGCGTGGCGGGAGCTCTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCTCCACGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCTCCACGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	CTCGCCTGGAGCCCTTGTAGTCTGGTGTGGTCTGCGCAGCAATAGTGGCGCGGACGTTG	6060
Sbjct	6001	CTCGCCTGGAGCCCTTGTAGTCTGGTGTGGTCTGCGCAGCAATAGTGGCGCGGACGTTG	6060
Query	6061	GCCCGGGCAGGGGGGAGTGAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCAGGGGGGAGTGAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCAGCAGTACGTGCCGAGAGCGATGAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCAGCAGTACGTGCCGAGAGCGATGAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTTACTGTAAACCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240

Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACCTCCATGCTCCGGTTCTTGCTAAGGGACATCTGGGACTTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACCTCCATGCTCCGGTTCTTGCTAAGGGACATCTGGGACTTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTTC	6360
Query	6361	CCTTTGTGTCTCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAAACGCCATACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAAACGCCATACCA	6540
Query	6541	CGGGCCCCCTGTACTCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCCTGTACTCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCAGATCCCATCGCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCAGATCCCATCGCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCTACACAGGTTTGCGCCCTTGAAGCCCTTGTCTGCGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCTACACAGGTTTGCGCCCTTGAAGCCCTTGTCTGCGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGTTGGGGTCGCAATTACCTTGCAGAGCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGTTGGGGTCGCAATTACCTTGCAGAGCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACICCTTCGATCCGCTTGTGGCAGAGGAGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTTCGCCGAGCTTCGCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTTCGCCGAGCTTCGCCG	7200
Query	7201	TCGGGCGCGGCGGACTACAACCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TTTGGGCGCGGCGGACTACAACCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCCTTGGCGGAGC	7380

Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCITGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCGGCATTACGGGGACAAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCGGCATTACGGGGACAAATACGACAA	7440
Query	7441	CATCCTCTGAGGCCGCCCTTCTGGCTGCCCCGACTCCGACGTTGAGTCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGGCCGCCCTTCTGGCTGCCCCGACTCCGACGTTGAGTCTATTCTT	7500
Query	7501	CCATGCCCCCGTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCTGA	7560
Sbjct	7501	CCATGCCCCCGTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCTGA	7560
Query	7561	CGGTGAGTAGTGGGGCCGACACGGAAGATGTCGTGTCTGCTCAATGCTTATTCTCTGA	7620
Sbjct	7561	CGGTGAGTAGTGGGGCCGACACGGAAGATGTCGTGTCTGCTCAATGCTTATTCTCTGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACATGCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACATGCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGTCTACGCCATCACAACTCTGGTGTATTCCACCACCTTCACGCACTGCTTGC	7740
Sbjct	7681	GCAACTCGTTGTCTACGCCATCACAACTCTGGTGTATTCCACCACCTTCACGCACTGCTTGC	7740
Query	7741	AAAGGCAGAGAAGATGACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAGC	7800
Sbjct	7741	AAAGGCAGAGAAGATGACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAGC	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTTAACCTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTTAACCTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTACGCTGAGAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTCCCGACCTGGGGC	8100
Sbjct	8041	TTACGCTGAGAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTCCCGACCTGGGGC	8100
Query	8101	TGCGCGTGTGCGAGAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCGCTGGCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCGCTGGCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACACGAGCAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACACGAGCAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAAGTCCAAGAGACCCCGATGGGGTTTCGTATGATACCCCGTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAAGTCCAAGAGACCCCGATGGGGTTTCGTATGATACCCCGTGTTTTGACTCCA	8280
Query	8281	CAGTCACCTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACCTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACATGCGGCTACCGCAGGTGCCGCGCAGCGGCTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACATGCGGCTACCGCAGGTGCCGCGCAGCGGCTACTGACAA	8460
Query	8461	CTAGCTGTGGTAAACCCCTCACTTGCTACATCAAGGCCGGGCGAGCCTGTGAGCGCGAG	8520


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Sbjct  8461  CTAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCGAG 8520
Query  8521  GGCCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCTGTTATCTGTGAAAGTG 8580
Sbjct  8521  GGCCTCCAGGACTGCACCATGCTCGTGTGTGTGGCGACGACTTAGTCTGTTATCTGTGAAAGTG 8580
Query  8581  CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT 8640
Sbjct  8581  CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT 8640
Query  8641  CCGcccccccggggagccccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCT 8700
Sbjct  8641  CGCGCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT 8700
Query  8701  CCTCCAACGTGTGTCAGTCGCCCACGACGGCGCTGGGAGAGAGGGTCTACTACCTTACCCGTG 8760
Sbjct  8701  CCTCCAACGTGTGTCAGTCGCCCACGACGGCGCTGGGAGAGAGGGTCTACTACCTTACCCGTG 8760
Query  8761  ACCCTACAAACCCCTTCGCGAGAGCGCGCTGGGAGAGAGCAAGACACACTCCAGTCAATT 8820
Sbjct  8761  ACCCTACAAACCCCTTCGCGAGAGCGCGCTGGGAGAGAGCAAGACACACTCCAGTCAATT 8820
Query  8821  CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA 8880
Sbjct  8821  CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA 8880
Query  8881  CCCATTTCCTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGTGAGA 8940
Sbjct  8881  CCCATTTCCTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGTGAGA 8940
Query  8941  TCTACGGAGCGCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC 9000
Sbjct  8941  TCTACGGAGCGCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC 9000
Query  9001  ATGGCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG 9060
Sbjct  9001  ATGGCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG 9060
Query  9061  CATGCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG 9120
Sbjct  9061  CATGCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG 9120
Query  9121  TCCGCGCTAGGCTTCTGTCCAGAGGAGGAGGGCTGCCATATGTGGCAAGTACCTCTTCA 9180
Sbjct  9121  TCCGCGCTAGGCTTCTGTCCAGAGGAGGAGGGCTGCCATATGTGGCAAGTACCTCTTCA 9180
Query  9181  ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGGCCGTGGCCGGCTGGACT 9240
Sbjct  9181  ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGGCCGTGGCCGGCTGGACT 9240
Query  9241  TGTCGGGTGTGGTTCACGGCTGGCTACAGCGGGGAGACATTATACAGCGGTGTCTCATG 9300
Sbjct  9241  TGTCGGGTGTGGTTCACGGCTGGCTACAGCGGGGAGACATTATACAGCGGTGTCTCATG 9300
Query  9301  CCGGGCCCGCTGGTTCTGGTTTTCGCTACTCTGCTCGCTGACGGGGTAGGCATCTACC 9360
Sbjct  9301  CCGGGCCCGCTGGTTCTGGTTTTCGCTACTCTGCTCGCTGACGGGGTAGGCATCTACC 9360
Query  9361  TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTGttt 9420
Sbjct  9361  TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAGGCATTTCCTGTTT 9420
Query  9421  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9480
Sbjct  9421  TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT--TCTTTTTTTT 9478
Query  9481  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9498
Sbjct  9479  TTT-TTTTTCTTTTTTTT 9495

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Score = 285 bits (154), Expect = 6e-73
 Identities = 177/187 (94%), Gaps = 6/187 (3%)
 Strand=Plus/Plus

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Query  9418  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9474

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Sbjct  9461  TTTTTTTCTTTTTTTTTTTTTTTTTTCCTTTTTTTTTTTTTTTTTTCTTTCTCTC-IT 9519
Query   9475  ttttctctctttt---tctctctcttAATGGTGGGTCACATCTTAGCCCTAGTCACGGCTA 9532
Sbjct  9520  TTTTCCTTTCTTTTCTCTCTCTTTAATGGTGGGTCACATCTTAGCCCTAGTCACGGCTA 9579
Query   9533  GCTGTGAAAGGTCCTGTAGCCGCATGACTGCAGAGAGTGTGTGATACTGGCCTCTCTGCAG 9592
Sbjct  9580  GCTGTGAAAGGTCCTGTAGCCGCATGACTGCAGAGAGTGTGTGATACTGGCCTCTCTGCAG 9639
Query   9593  ATCATGT 9599
Sbjct  9640  ATCATGT 9646

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>dbj|DL487747.1|  FUNCTIONAL DNA CLONE FOR HEPATITIS C VIRUS (HCV) AND USES THEREOF
Length=12980

Sort alignments for this subject see
E value Score Percent identity
Query start position Subject sta

Score = 1.732e+04 bits (9377), Expect = 0.0
Identities = 9458/9498 (99%), Gaps = 1/9498 (0%)
Strand=Plus/Plus

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Query   1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAAGTACTG 60
Sbjct   1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAAGTACTG 60
Query   61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGCAGCCTCCAGGA 120
Sbjct   61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGCAGCCTCCAGGA 120
Query   121     ccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Sbjct   121     CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Query   181     GACGACCGGGTCTTTCTTGATAAACCCGCTCAATGCCTGGAGATTGGCGGTGCCCCC 240
Sbjct   181     GACGACCGGGTCTTTCTTGATAAACCCGCTCAATGCCTGGAGATTGGCGGTGCCCCC 240
Query   241     GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTGTGGTACTGCCATGATAGG 300
Sbjct   241     GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTGTGGTACTGCCATGATAGG 300
Query   301     GTGCTTGCAGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC 360
Sbjct   301     GTGCTTGCAGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC 360
Query   361     CTCAAAGAAAAACCAACGTAACACCAACCGTCGCGCCACAGGACGTCAAGTTCCCGGGTG 420
Sbjct   361     CTCAAAGAAAAACCAACGTAACACCAACCGTCGCGCCACAGGACGTCAAGTTCCCGGGTG 420
Query   421     GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC 480
Sbjct   421     GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC 480
Query   481     GCGGACAGGAGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTAGCCTATCCCCA 540
Sbjct   481     GCGGACAGGAGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTAGCCTATCCCCA 540
Query   541     AGGCACGTCGCGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCCCTATG 600
Sbjct   541     AGGCACGTCGCGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCCCTATG 600
Query   601     GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT 660
Sbjct   601     GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT 660
Query   661     GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCCTTA 720
Sbjct   661     GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCCTTA 720

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Query	721	CTGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGCG	780
Sbjct	721	CTGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGGCTGACCG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTACCAATGATT	960
Query	961	GCCTTAACCTCGAGTATTGTGTACGAGGCGGCGGATGCCATCTTCGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCTTAACCTCGAGTATTGTGTACGAGGCGGCGGATGCCATCTTCGCACACTCCGGGGTGTG	1020
Query	1021	TCCTTTGCGTTTCGCGAGGGTAACGCCCTCGAGGTGTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCTTTGCGTTTCGCGAGGGTAACGCCCTCGAGGTGTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACTCCCCACAACGAGCTTCGACGTCATATCGATCTGCTTGTGCG	1140
Sbjct	1081	CCACCAGGGACGGCAAACTCCCCACAACGAGCTTCGACGTCATATCGATCTGCTTGTGCG	1140
Query	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGAGCAGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGAGCAGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAATGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAATGGT	1320
Query	1321	CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGATCCCAAGCCATCATGGACA	1380
Sbjct	1321	CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGATCCCAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCCATGGTGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCCATGGTGGGA	1440
Query	1441	ACTGGGCGAAGGTCTCTGGTAGTGCTGCTGCTATTTCGGCGGCTGCAGCGGAAACCCAG	1500
Sbjct	1441	ACTGGGCGAAGGTCTCTGGTAGTGCTGCTGCTATTTCGGCGGCTGCAGCGGAAACCCAG	1500
Query	1501	TCACCGGGGAAATGCCGGCCGCACACGGCTGGGCTTGTGTGCTCTTACACAGGGCG	1560
Sbjct	1501	TCACCGGGGAAATGCCGGCCGCACACGGCTGGGCTTGTGTGCTCTTACACAGGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT	1620
Query	1621	TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCTTACCGATTTCGCC	1740
Sbjct	1681	TCAACTCTTCAGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCTTACCGATTTCGCC	1740
Query	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTTACTGCT	1800
Query	1801	GGCACTACCTTCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCGGTAT	1860
Sbjct	1801	GGCACTACCTTCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCGGTAT	1860

Query	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCCTTAACAACACAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCCTTAACAACACAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCTTGTGTGTCATCGGAGGGGTGGGCAACAACACCTTGTCTGCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCTTGTGTGTCATCGGAGGGGTGGGCAACAACACCTTGTCTGCCCACTGATTGCTTCC	2100
Query	2101	GCAAACTATCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCGGTATAGGCTTTGGCAGTATCCCTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCGGTATAGGCTTTGGCAGTATCCCTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGCTGGAAGCGGCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCACACACAGTGGCAGGTCCCTCCGTGTTCTTTACAGACCTCGCAGCCTTGTCCA	2400
Sbjct	2341	TGTCACACACAGTGGCAGGTCCCTCCGTGTTCTTTACAGACCTCGCAGCCTTGTCCA	2400
Query	2401	CCGGCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGTAGGGT	2460
Sbjct	2401	CCGGCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGTAGGGT	2460
Query	2461	CAAGCATCGGCTCCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCTTG	2520
Sbjct	2461	CAAGCATCGGCTCCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGCTTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGCTTTGTGT	2640
Query	2641	CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGCGGTGTTCTTGTGCGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGCGGTGTTCTTGTGCGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCCCGCTCAACGTC	2940
Query	2941	GGGGGGGCGCGATGCGGTATCTTACTCATGTGTGTAGTACACCCGACCTGGTATTG	3000
Sbjct	2941	GGGGGGGCGCGATGCGGTATCTTACTCATGTGTGTGTAGTACACCCGACCTGGTATTG	3000

Query	3001	ACATCACAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCTCGTGCAGTTCAAGGCCTTCTCCGAGTCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCTCGTGCAGTTCAAGGCCTTCTCCGAGTCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGAGGTCATTACGTGCAATGGCCATCATCAAGTTAGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGAGGTCATTACGTGCAATGGCCATCATCAAGTTAGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAAGGCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAAGGCTGCGAGATC	3240
Query	3241	TGGCGTGGCTGTGGAACCAAGTCGTCTTCTCCGGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCGTGGCTGTGGAACCAAGTCGTCTTCTCCGGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGCAGATACGCGCGGTGCGGTGACATCATCAACGGCTTGGCCGCTCTGCGCCGTAGGG	3360
Sbjct	3301	GGCAGATACGCGCGGTGCGGTGACATCATCAACGGCTTGGCCGCTCTGCGCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTGTCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTGTCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCTCCTTAGGGTGTATATACACAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCTCCTTAGGGTGTATATACACAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACAGGGGCGGAA	3600
Sbjct	3541	AAACCTTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACAGGGGCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAAGGTCCTGTATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAAGGTCCTGTATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGT	3720
Query	3721	CCTCGGACCTTACCTTGGTACGAGGCACGCCGATGTCTCCCGTGGCCGCGCAGGTG	3780
Sbjct	3721	CCTCGGACCTTACCTTGGTACGAGGCACGCCGATGTCTCCCGTGGCCGCGCAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCAATTCTACTTGAAAGGCTCCTCGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCAATTCTACTTGAAAGGCTCCTCGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGACACGCCGTGGGCTATTACAGGCGCGCGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGACACGCCGTGGGCTATTACAGGCGCGCGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACAGCAGTGCACAGAGCTTCCAGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACAGCAGTGCACAGAGCTTCCAGTGGCCC	4020
Query	4021	ACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGACGCC	4080
Sbjct	4021	ACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGACGCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGTCAACCCCTCTGTTGTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGTCAACCCCTCTGTTGTGCAACGCTGGGCTTTGGTGCTT	4140

Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Query	4201	CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACGTGTGCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACGTGTGCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCTTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGCTGTGCTATCC	4620
Sbjct	4561	TGGTCGCTTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGCTGTGCTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTTAGACAAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTTAGACAAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGGAAGCCAGGCATCTACAGATTGTGGCACCAGGGGAGC	4860
Query	4861	GCCCTCCCGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCTCCCGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTCCCGGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCCTCTC	5040
Sbjct	4981	GGCTCCCGGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCCTCTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTTCCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTTCCCTTACCTGG	5100
Query	5101	TAGCGTACCAGCCACCCTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAGCCACCCTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGTATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGTATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGATGAAGTACCCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGATGAAGTACCCCTGACGCACCCAATCACCAAATACATCATGA	5280

Query	5281	CATGCATGTGCGCCGACCTGGAGTTCGTACAGAGCACTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTGCGCCGACCTGGAGTTCGTACAGAGCACTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATTG	5400
Query	5401	TCTTGTCCGGGAAGCCGCGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGCGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCCATCGAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCCATCGAGAGGTTATCA	5580
Query	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA	5700
Query	5701	TGCTTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCAGTGGCCAAACCC	5760
Sbjct	5701	TGCTTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCAGTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTGCCGCCGCCGGTGGCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTGCCGCCGCCGGTGGCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATCTGCGCCGGCAGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATCTGCGCCGGCAGTTG	6060
Query	6061	GCCCCGGGCGAGGGGGGAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Sbjct	6061	GCCCCGGGCGAGGGGGGAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Query	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAAACCAAGCTCCTGAGGCAGTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAAACCAAGCTCCTGAGGCAGTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTAACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTAACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTG	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTG	6360
Query	6361	CCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420

Query	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTACGCCCTACACCA	6540
Sbjct	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTACGCCCTACACCA	6540
Query	6541	CGGGCCCTGTACTCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCTGTACTCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGAGGAGGATATCAT	6780
Sbjct	6721	GGGTGCGCTACATAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGAGGAGGATATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTGTGACGTCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGGCGG	6900
Sbjct	6841	ACGTAGCCGTGTGTGACGTCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGGCGG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCAACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCAACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCAACGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCAACGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCCGAGAAATCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TTTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCG	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCG	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCCTTGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCCTTGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCGGCATACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCGGCATACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCGGCGGAGCTCCGACGTTGAGTCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCGGCGGAGCTCCGACGTTGAGTCTATTCTT	7500
Query	7501	CCATGCGGCGGCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGTCGA	7560
Sbjct	7501	CCATGCCCCCTTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGTCGA	7560

Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGICTTATTCTCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGICTTATTCTCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTCACGCACTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTCACGCACTGCTTGCC	7740
Query	7741	AAAGGCAGAGAAAGTACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAGAAAGTACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCCACATCAACTCCGTGTGGAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCCACATCAACTCCGTGTGGAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAGAAGCAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAGAAGCAGGTTTTCTGCG	8040
Query	8041	TTACGCCTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCTGTTCCCGACCTGGGGG	8100
Sbjct	8041	TTACGCCTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCTGTTCCCGACCTGGGGG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCGTGGCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCGTGGCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTACTCCA	8280
Query	8281	CAGTCACGTGAGAGCGACATCCGTACGGAGGAGGCAATTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACGTGAGAGCGACATCCGTACGGAGGAGGCAATTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGGAGCGGCTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGGAGCGGCTACTGACAA	8460
Query	8461	CTAGCTGTGGTAAACCCCTCACTTGCTACATCAAGGCCGGGCGAGCTGTGAGCGCGAG	8520
Sbjct	8461	CTAGCTGTGGTAAACCCCTCACTTGCTACATCAAGGCCGGGCGAGCTGTGAGCGCGAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGAGCACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGAGCACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACCGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACCGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGccccccgggggaccccaACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCGGGGACCCCCACAACCAGAATAGGACTTGGAGCTTATAACATCATGCT	8700

Score = 285 bits (154), Expect = 6e-73
Identities = 177/187 (94%), Gaps = 6/187 (3%)
Strand=Plus/Plus

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>gb|EA263004.1| Sequence 5 from patent US 7235394
Length=12980

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.732e+04 bits (9377), Expect = 0.0
Identities = 9458/9498 (99%), Gaps = 1/9498 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCCTGTGAGGAACACTAGT	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCCTGTGAGGAACACTAGT	60
Query	61	TCTTCACGCAGAAAGCGCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCCTCCAGGAC	120
Sbjct	61	TCTTCACGCAGAAAGCGCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCCTCCAGGAC	120
Query	121	ccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCTTTCTTGATATAACCCGCTCAATGCTTGGAGATTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCTTTCTTGATATAACCCGCTCAATGCTTGGAGATTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGCCCTGTGGTACTGCCGTATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGCCCTGTGGTACTGCCGTATAGG	300
Query	301	GTGCTTGCAGTGTCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGTGTCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCCCACAGGACGTCAAGTTCCTGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCCCACAGGACGTCAAGTTCCTGGGTG	420
Query	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTTGGCCCCCTATG	600
Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTTGGCCCCCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCTAGCT	660
Query	661	GGGGCCCCACAGACCCCGCGTAGGTGCGGCAATTGGGTAAAGGTATCGATAACCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCGCGTAGGTGCGGCAATTGGGTAAAGGTATCGATAACCTTA	720
Query	721	CGTGGCGCTTCGCGGACCTCATGGGGTACATACCGCTCGTGGCGGCCCTCTTGGAGGGG	780
Sbjct	721	CGTGGCGCTTCGCGGACCTCATGGGGTACATACCGCTCGTGGCGGCCCTCTTGGAGGGG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCTCGTGTGCTCTTTCTCTATCTTCTTCTGCGCCCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACCTTCTCGTGTGCTCTTTCTCTATCTTCTTCTGCGCCCTGCTCTCTTGGCTGACTG	900
Query	901	TGCCCGCTTCAGCTACCAAGTGCGAATTCCTCGGGGCTTTACCATGTACCAATGATT	960

Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCCAATTCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCTTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCTTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCTTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCTTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGAGCGCAAACTCCCCACAACGCAGCTTCAGCTCATATCGATCTGCTTTGTG	1140
Sbjct	1081	CCACCAGGAGCGCAAACTCCCCACAACGCAGCTTCAGCTCATATCGATCTGCTTTGTG	1140
Query	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTTCATCGCATGGCATGGGATATGATGATGAACGTGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTTCATCGCATGGCATGGGATATGATGATGAACGTGT	1320
Query	1321	CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGATCCCAAGCCATCATGGACA	1380
Sbjct	1321	CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGATCCCAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGA	1440
Query	1441	ACTGGGCGAAGGTCTGTGTAGTGTCTGCTATTTGCCGCGCTCGACGCGGAAACCCAGC	1500
Sbjct	1441	ACTGGGCGAAGGTCTGTGTAGTGTCTGCTATTTGCCGCGCTCGACGCGGAAACCCAGC	1500
Query	1501	TCACCGGGGGAATGCCGCGCGCACCCACGGCTGGGCTTGTGTGCTTCCTTACACAGGCG	1560
Sbjct	1501	TCACCGGGGGAATGCCGCGCGCACCCACGGCTGGGCTTGTGTGCTTCCTTACACAGGCG	1560
Query	1561	CCAAGCAGAACTCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
Sbjct	1561	CCAAGCAGAACTCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
Query	1621	TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTCTCAGGCTGCTCCTGAGAGGTTGGCCAGCTGCCGACGCTTACCGATTTTTGCC	1740
Sbjct	1681	TCAACTCTCTCAGGCTGCTCCTGAGAGGTTGGCCAGCTGCCGACGCTTACCGATTTTTGCC	1740
Query	1741	AGGGCTGGGGTCTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTTACTGCT	1800
Query	1801	GGCACTACCCCTCAAGACCTTGTGGCATTTGTGCCGCAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCCTCAAGACCTTGTGGCATTTGTGCCGCAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCGCCCGTGGTGGTGGGAACGACAGGTCGGGCGGCGCTTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCGCCCGTGGTGGTGGGAACGACAGGTCGGGCGGCGCTTACCT	1920
Query	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCTTAAACAACACAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCTTAAACAACACAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAAGTGTGCGGAGCGC	2040
Query	2041	CCCTTGTGTCTATCGAGGGGTGGGCAACAACACCTTGCTCTGCCCACTGATTGCTTCC	2100

Sbjct	2041	CCCCTTGTGTACATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGTTTC	2100
Query	2101	GCAAACATCCGGAAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGAAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTGCATCTACCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTGCATCTACCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGCTGGAAGCGGCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAAGCGTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAAGCGTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCGTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCTCATCCACCTCCACCAACATTGTGGAGCTGCAGTACTTGTACGGGTAGGGT	2460
Sbjct	2401	CCGGCTCATCCACCTCCACCAACATTGTGGAGCTGCAGTACTTGTACGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCGGGACGACGGCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCGGGACGACGGCTTGTGT	2640
Query	2641	CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGAGCGG	2700
Sbjct	2641	CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGAGGCTCTCCTCTGCTCCTGCTGGCGTTGCCACAGCGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGAGGCTCTCCTCTGCTCCTGCTGGCGTTGCCACAGCGG	2760
Query	2761	CATACGCACTGGACACGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGCGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGCGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCTGGTATTTG	3000
Sbjct	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTGTACACCCGACTCTGGTATTTG	3000
Query	3001	ACATCACCAAACTACTCTGGCCATCTTCGGACCCCTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACTACTCTGGCCATCTTCGGACCCCTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGGCTTCAAGGCCCTTCTCCGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGGCTTCAAGGCCCTTCTCCGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCAACAGGCTGCGAGATC	3240

Sbjct 3181 CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAGATC 3240

Query 3241 TGGCGTGGCTGTGGAAACAGTCGTCTTCTCCGAATGGAGACCAAGTCATACAGTGGG 3300

Sbjct 3241 TGGCGTGGCTGTGGAAACAGTCGTCTTCTCCGAATGGAGACCAAGTCATACAGTGGG 3300

Query 3301 GGGCAGATACCGCCGCGTGGGTGACATCATCAACGGCTTGCCTCTCTGCCCCTAGGG 3360

Sbjct 3301 GGGCAGATACCGCCGCGTGGGTGACATCATCAACGGCTTGCCTCTCTGCCCCTAGGG 3360

Query 3361 GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTGTCTGG 3420

Sbjct 3361 GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTGTCTGG 3420

Query 3421 GCCTCATCAGCGGTACGCCAGCAGCAGAGAGGCTCTTAGGGTGTATAATCACCAGCC 3480

Sbjct 3421 GCCTCATCAGCGGTACGCCAGCAGCAGAGAGGCTCTTAGGGTGTATAATCACCAGCC 3480

Query 3481 TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCC 3540

Sbjct 3481 TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCC 3540

Query 3541 AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACGGGGCCGGAA 3600

Sbjct 3541 AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACGGGGCCGGAA 3600

Query 3601 CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG 3660

Sbjct 3601 CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG 3660

Query 3661 ACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGCT 3720

Sbjct 3661 ACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGCT 3720

Query 3721 CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTCAATTCCCGTGGCCGGCAGGTTG 3780

Sbjct 3721 CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTCAATTCCCGTGGCCGGCAGGTTG 3780

Query 3781 ATAGCAGGGGTAGCCTGCTTTCGCCCGGCCCAATTCTACTTGAAGGCTCTTCGGGGG 3840

Sbjct 3781 ATAGCAGGGGTAGCCTGCTTTCGCCCGGCCCAATTCTACTTGAAGGCTCTTCGGGGG 3840

Query 3841 GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCTATTACAGGCGCGGTGTGCACCC 3900

Sbjct 3841 GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCTATTACAGGCGCGGTGTGCACCC 3900

Query 3901 GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT 3960

Sbjct 3901 GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT 3960

Query 3961 CCCCCGTGTTACGGGACAACCTCTCCACCAGCAGTGCCTCCAGAGCTTCCAGTGGCCC 4020

Sbjct 3961 CCCCCGTGTTACGGGACAACCTCTCCACCAGCAGTGCCTCCAGAGCTTCCAGTGGCCC 4020

Query 4021 ACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAGGTTCCCGGCTGCGTACGAGCCC 4080

Sbjct 4021 ACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAGGTTCCCGGCTGCGTACGAGCCC 4080

Query 4081 AGGGCTACAAGGTGTGTGGTCTCAACCCCTCTGTGTGCTCAACGCTGGGCTTTGGTGTCT 4140

Sbjct 4081 AGGGCTACAAGGTGTGTGGTCTCAACCCCTCTGTGTGCTCAACGCTGGGCTTTGGTGTCT 4140

Query 4141 ACATGTCCAAGGCCCATGGGGTGTATCCTAAATATCAGGACCGGGGTGAGAACCAATTACCA 4200

Sbjct 4141 ACATGTCCAAGGCCCATGGGGTGTATCCTAAATATCAGGACCGGGGTGAGAACCAATTACCA 4200

Query 4201 CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGTCTAG 4260

Sbjct 4201 CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGTCTAG 4260

Query 4261 GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT 4320

Sbjct 4261 GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT 4320

Query 4321 TGGGCTACGGCAGTGTCTTGTACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTCTCG 4380

Sbjct	4321	TGGGCATCGGCAGCTGCTTACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CACTGCTACCCCTCCGGGCTCCGTCACGTGTGCCATCCTAACATCGAGGAGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACGTGTGCCATCCTAACATCGAGGAGTTGCTC	4440
Query	4441	TGTCACCAACCGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCACCAACCGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGATTGGGCATCAATGCCGTGGCTACTACCCGGTCTTGACGTGCTGTGATCC	4620
Sbjct	4561	TGGTCGATTGGGCATCAATGCCGTGGCTACTACCCGGTCTTGACGTGCTGTGATCC	4620
Query	4621	CGACAGCGGCGATGTTGTCTGCTGTGACCGATGCTCTCATGACTGGCTTACCCGGG	4680
Sbjct	4621	CGACAGCGGCGATGTTGTCTGCTGTGACCGATGCTCTCATGACTGGCTTACCCGGG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTTAGACAACACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTTAGACAACACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGCGAGGACTGCGAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGAGC	4860
Sbjct	4801	GCCGGGCGAGGACTGCGAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTACGCGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCG	4980
Sbjct	4921	GGTATGAGCTACGCGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGTATCCGCCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGTATCCGCCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAAGATGAAGTACCCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAAGATGAAGTACCCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGATGTGCGCCGACCTGGAGGTGCTCAGGACCACTGGGTGCTCGTGTGGCGGGCTCC	5340
Sbjct	5281	CATGATGTGCGCCGACCTGGAGGTGCTCAGGACCACTGGGTGCTCGTGTGGCGGGCTCC	5340
Query	5341	TGGCTGCTGTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTGTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGACGAAGGGATGATGCTCGCTGAGC	5520

Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTATATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTATATCA	5580
Query	5581	CCCTGCTGCTGCAGAGCAACTGGCAGAACTCGAGGTCCTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCTGCTGCTGCAGAGCAACTGGCAGAACTCGAGGTCCTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCCGGTGGCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCCGGTGGCGCTA	5820
Query	5821	CTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAAGG	5880
Sbjct	5821	CGGCCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAAGG	5880
Query	5881	TCTCGTGGACATTCTTTCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCTCGTGGACATTCTTTCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCTCCACGAGGACCTGGTCAATCTGCTGCCCGCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCTCCACGAGGACCTGGTCAATCTGCTGCCCGCATCC	6000
Query	6001	TCTGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATCTGCGCCGGCAGCTTG	6060
Sbjct	6001	TCTGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATCTGCGCCGGCAGCTTG	6060
Query	6061	GCCCGGGCAGGGGGCAGTGAATGGAATGAACCGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Sbjct	6061	GCCCGGGCAGGGGGCAGTGAATGGAATGAACCGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Query	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCTCACTGCCA	6180
Query	6181	TACTCAGCAGCTCACTGTAAACCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCTCACTGTAAACCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACCTCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACCTCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Query	6361	CTTTTGTGCTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CTTTTGTGCTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAAACGCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAAACGCTACACCA	6540
Query	6541	CGGGCCCCGTGACTACCCCTTCTCGCGCGAACTATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTACCCCTTCTCGCGCGAACTATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGACTTCCCACTACGTATCGGGTATGACTA	6660

Sbjct	6601	CAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAAITGGAGC	6720
Sbjct	6661	CTGACAATCTTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAAITGGAGC	6720
Query	6721	GGGTGCGCCTACACAGGTTTGC GCCCCTTGCAAGCCCTTGCTGCGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACATAGGTTTGC GCCCCTTGCAAGCCCTTGCTGCGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCGGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCGGAACCGG	6840
Query	6841	ACGTAGCCGTTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTTCATATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTTCATATGGCCAGCTCCTCGGCCAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTCGACAGAGGAGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTCGACAGAGGAGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGACAGAAATCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCCGACAGAAATCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCG	7200
Query	7201	TCGTGGCGCGGCCGACTACAACCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TTTGCGCGCGGCCGACTACAACCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCATATCTACTGCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCATATCTACTGCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTGTGGAGCTCCTCAACTTCCGGCATTACGGGCGACAAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTGTGGAGCTCCTCAACTTCCGGCATTACGGGCGACAAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCGCGCGGACTCCGACGTTGAGTCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCGCGCGGACTCCGACGTTGAGTCTATTCTT	7500
Query	7501	CCATGCGCGCGGCTGGAGGGGGAGSCTGGGGATCCGGATCTCAGCGACGGGTCATGTGCGA	7560
Sbjct	7501	CCATGCCCGCCCCCTGGAGGGGGAGSCTGGGGATCCGGATCTCAGCGACGGGTCATGTGCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGCTGTGCTGCTCTCAATGCTTATTCTCGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGCTGTGCTGCTCTCAATGCTTATTCTCGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAACAACTGCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAACAACTGCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTACGCGAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTACGCGAGTGCTTGCC	7740
Query	7741	AAAGGCAGAGAAAGTACATTGTACAGACTCGAAGTTCTGGACAGCCATTACCAAGAGC	7800

Sbjct	7741	AAAGGCAGAAAGAACTGACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTGGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTGGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAGAAGCAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAGAAGCAGGTTTTCTGCG	8040
Query	8041	TTACGCTGAGAGGGGGGTCGTAAAGCCAGCTCGTCTCATCGTGTCCCGACCTGGGCG	8100
Sbjct	8041	TTACGCTGAGAGGGGGGTCGTAAAGCCAGCTCGTCTCATCGTGTCCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAGAAGTGGCCCTGTACGACGTGGTTAGCAAGCTCCCGTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAGAAGTGGCCCTGTACGACGTGGTTAGCAAGCTCCCGTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACACAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACACAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTACTCCA	8280
Sbjct	8221	CGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAACTGCGGCTACCGCAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAACTGCGGCTACCGCAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Query	8461	CTAGCTGTGGTAAACCCCTCACTTGTACATCAAGGCCCGGGCAGCCTGTGAGCCGCGAG	8520
Sbjct	8461	CTAGCTGTGGTAAACCCCTCACTTGTACATCAAGGCCCGGGCAGCCTGTGAGCCGCGAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACCGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACCGGAGGCTATGACCAGGTACT	8640
Query	8641	CGGgggggccccgggagacccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CGGCCCCCCCCGGGACCCCCACACCCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CTTCAACGTTGTCAGTCGCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CTTCAACGTTGTCAGTCGCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCTTCGCGAGAGCGCGTGGGAGACAGCAAGACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCTTCGCGAGAGCGCGTGGGAGACAGCAAGACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACCTGTGAGA	8940

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Sbjct  8881  CCCATTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGA 8940
Query   8941  TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC 9000
Sbjct  8941  TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC 9000
Query   9001  ATGGGCTCAGCGCATTTTCTACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCGG 9060
Sbjct  9001  ATGGGCTCAGCGCATTTTCTACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCGG 9060
Query   9061  CATGGCTCAGAAAACITGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG 9120
Sbjct  9061  CATGGCTCAGAAAACITGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG 9120
Query   9121  TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA 9180
Sbjct  9121  TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA 9180
Query   9181  ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGGCCGTGGCCGGCTGGACT 9240
Sbjct  9181  ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGGCCGTGGCCGGCTGGACT 9240
Query   9241  TGTCGGTGTGGTTCACGGCTGGCTACAGCGGGGAGACATTTATACAGCGGTGTCTCATG 9300
Sbjct  9241  TGTCGGTGTGGTTCACGGCTGGCTACAGCGGGGAGACATTTATACAGCGGTGTCTCATG 9300
Query   9301  CCGGGCCCGCTGGTTCGTGGTTTGGCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC 9360
Sbjct  9301  CCGGGCCCGCTGGTTCGTGGTTTGGCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC 9360
Query   9361  TCCGCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCTCTTAAGCCATTTCCGTGTT 9420
Sbjct  9361  TCCGCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCTCTTAAGCCATTTCCGTGTT 9420
Query   9421  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9480
Sbjct  9421  TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 9480
Query   9481  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9498
Sbjct  9481  TTT-TTTTTCTTTTTTTT 9497


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Score = 285 bits (154), Expect = 6e-73
 Identities = 177/187 (94%), Gaps = 6/187 (3%)
 Strand=Plus/Plus

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Query   9418  tttttttt-ttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9474
Sbjct  9463  TTTTTTCTCTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTCTTCTCTC-TT 9521
Query   9475  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9532
Sbjct  9522  TTTTCTTTCTTTTCTTCTTTTAAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTA 9581
Query   9533  GCTGTGAAAGGTCCTGAGCCGCATGACTGCAGAGAGTGTGATACTGGCCTCTCTGCAG 9592
Sbjct  9582  GCTGTGAAAGGTCCTGAGCCGCATGACTGCAGAGAGTGTGATACTGGCCTCTCTGCAG 9641
Query   9593  ATCATGT 9599
Sbjct  9642  ATCATGT 9648

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>dbj|BD069985.1|  Functional DNA clone for hepatitis C virus (HCV) and uses thereof
 Length=12980

Sort alignments for this subject se
 E value Score Percent identity
 Query start position Subject sta

Score = 1.732e+04 bits (9377), Expect = 0.0
 Identities = 9458/9498 (99%), Gaps = 1/9498 (0%)
 Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAACTACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAACTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTGAGGCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTGAGGCTCCAGGAC	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCTTTCTTGGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCTTTCTTGGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGAGTGCCCGGGAGGTCCTGTAGACCGTGCACCATGAGCAGCAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGAGTGCCCGGGAGGTCCTGTAGACCGTGCACCATGAGCAGCAATCCTAAAC	360
Query	361	CTCAAGAAAAAACCAACGTAACACCAACCGTCGCCCCACAGGACGTCAAGTCCCGGGTG	420
Sbjct	361	CTCAAGAAAAAACCAACGTAACACCAACCGTCGCCCCACAGGACGTCAAGTCCCGGGTG	420
Query	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGGCCGCGAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGGCCGCGAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGGCAGCAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGACGCTATCCCCA	540
Sbjct	481	GCGGCAGCAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGACGCTATCCCCA	540
Query	541	AGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTATATG	600
Sbjct	541	AGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTATATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCGGGAIGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCGGGAIGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCTAGGTGCGCAATTGGGTAAGGTCATCGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCTAGGTGCGCAATTGGGTAAGGTCATCGATACCCCTTA	720
Query	721	CGTGGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTGGCGCCCTCTTGGAGGCG	780
Sbjct	721	CGTGGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTGGCGCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCTGGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACCTTCTGGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGGCTGACCG	900
Query	901	TGCCCGCTTCAGCTACCAAGTGCGAATTCTCGGGGCTTTACCATGTACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCTACCAAGTGCGAATTCTCGGGGCTTTACCATGTACCAATGATT	960
Query	961	GCCTTAACTCGAGTATTGTGTACGAGGCGGCGGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCTTAACTCGAGTATTGTGTACGAGGCGGCGGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCTTTCGCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCTTTCGCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCAACACGAGCTTCAGAGTCATATCGATCTGCTTGTGC	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCAACACGAGCTTCAGAGTCATATCGAICTGCTTGTGC	1140

Query	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGAGCAGCGAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGAGCAGCGAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTTCATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTTCATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTACTGGGAGTCTCTGGCGGGCATAGCGTATTTCCTCATGGTGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTACTGGGAGTCTCTGGCGGGCATAGCGTATTTCCTCATGGTGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTCTATTGCGCGCGTGCACGCGGAAACCCAGC	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTCTATTGCGCGCGTGCACGCGGAAACCCAGC	1500
Query	1501	TCACCGGGGAAATGCCGCGCCGACACGGCTGGGCTTGTGTGCTCTCCTTACACAGGGC	1560
Sbjct	1501	TCACCGGGGAAATGCCGCGCCGACACGGCTGGGCTTGTGTGCTCTCCTTACACAGGGC	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT	1620
Query	1621	TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCAGCGCTTACCGATTITGGCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCAGCGCTTACCGATTITGGCC	1740
Query	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTTACTGCT	1800
Query	1801	GGCACTACCCCTCAAGACCTTGTGGCATTTGTGCCCGCAAGAGCGTGTGTGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCCTCAAGACCTTGTGGCATTTGTGCCCGCAAGAGCGTGTGTGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCAGCCCGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCTTACCT	1920
Sbjct	1861	ATTGCTTCACTCCAGCCCGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCTTACCT	1920
Query	1921	ACAGCTGGGGTGCAATGATACGGATGTCTTCGTCTTAAACACACACAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAATGATACGGATGTCTTCGTCTTAAACACACACAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCTTGTGTATCATCGAGGGGTGGGCAACACACCTTGTCTTGGCCCACTGATTGCTTC	2100
Sbjct	2041	CCCTTGTGTATCATCGAGGGGTGGGCAACACACCTTGTCTTGGCCCACTGATTGCTTC	2100
Query	2101	GCAAAATCATCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAAATCATCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGATACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGATACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGTTCGAGCACAGGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGTTCGAGCACAGGCTGGAAGCGGCTGCAACTGGA	2280

Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCAGAGCTCAGCCCGTGTCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCAGAGCTCAGCCCATGTCTGC	2340
Query	2341	TGTCACCAACACAGTGGCAGGTCTCTCCGTGTTCTTTACGACCCCTGCCAGCCCTTGTTCA	2400
Sbjct	2341	TGTCACCAACACAGTGGCAGGTCTCTCCGTGTTCTTTACGACCCCTGCCAGCCCTTGTTCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGCTTGTGT	2640
Query	2641	CCTTCTCTGTTCTTCTGCTTTCGCTGGTATCTGAAGGGTAGTGGGTGCCGGAGCGG	2700
Sbjct	2641	CCTTCTCTGTTCTTCTGCTTTCGCTGGTATCTGAAGGGTAGTGGGTGCCGGAGCGG	2700
Query	2701	TCACGCCCTCTACGGGATGTGGCCCTCTCCTCTGCTCCTGCTGGCGTTGCTCAGCGGG	2760
Sbjct	2701	TCACGCCCTCTACGGGATGTGGCCCTCTCCTCTGCTCCTGCTGGCGTTGCTCAGCGGG	2760
Query	2761	CATACGCATGGACACGGAGGTGGCCGCGTCGTGTGGCGCGCTGTCTTGTGCGGGTTAA	2820
Sbjct	2761	CATACGCATGGACACGGAGGTGGCCGCGTCGTGTGGCGCGCTGTCTTGTGCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCAAGTTC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCAAGTTC	2940
Query	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCTTGGTATTG	3000
Sbjct	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTGTACACCCGACCTTGGTATTG	3000
Query	3001	ACATCACCAACTACTCTCTGGCCATCTTCGGACCCCTTGGATTCTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAACTACTCTCTGGCCATCTTCGGACCCCTTGGATTCTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCTACTTCTCGTGCAGCTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCTACTTCTCGTGCAGCTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCCTCGAGATC	3240
Sbjct	3181	CCATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCCTCGAGATC	3240
Query	3241	TGGCGTGGCTGTGGAACCAAGTCGCTCTTCTCCGAAATGGAGACCAAGCTCATACAGTGGG	3300
Sbjct	3241	TGGCGTGGCTGTGGAACCAAGTCGCTCTTCTCCGAAATGGAGACCAAGCTCATACAGTGGG	3300
Query	3301	GGCAGATACCGCCGCGTGGGTGACATCATCAACGGCTTGGCCGCTCTGCCCAGTAGGG	3360
Sbjct	3301	GGCAGATACCGCCGCGTGGGTGACATCATCAACGGCTTGGCCGCTCTGCCCAGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420

Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCTGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCTGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGGTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCCCTGTACCTGCGGGT	3720
Sbjct	3661	ACCTTGTGGGGTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCCCTGTACCTGCGGGT	3720
Query	3721	CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTCTATCCCGTGGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTCTATCCCGTGGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCCGGCCATTTCCTACTTGAAGAGCTCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCCGGCCATTTCCTACTTGAAGAGCTCTCGGGGG	3840
Query	3841	GTCCCGTGTGTGTGCCCGCGGGACACGCCGTGGGCCTATTACAGGCGCGCGTGTGCACCC	3900
Sbjct	3841	GTCCCGTGTGTGTGCCCGCGGGACACGCCGTGGGCCTATTACAGGCGCGCGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCTCCACCAGCAGTCCCCAGAGCTTCCAGTGGGCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCTCCACCAGCAGTCCCCAGAGCTTCCAGTGGGCC	4020
Query	4021	ACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTGGTGTCTAACCCCTCTGTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTGGTGTCTAACCCCTCTGTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCATGGGGTGTGATCTTAATATCAGGACCGGGGTGAGACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCATGGGGTGTGATCTTAATATCAGGACCGGGGTGAGACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGGCCACGGCGGGTGTCTAG	4260
Sbjct	4201	CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGGCCACGGCGGGTGTCTAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCAGAGCTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCAGAGCTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGCTCACTGTGTCCCATCCTAACATCGAGGAGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGCTCACTGTGTCCCATCCTAACATCGAGGAGTTGCTC	4440
Query	4441	TGTCCACCACCAGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCAGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560

Query	4561	TGCTCGCATTGGGCATCAATGCCGTGGCCCTACTACCGCGGTCTTGACGTGTCGTATCC	4620
Sbjct	4561	TGCTCGCATTGGGCATCAATGCCGTGGCCCTACTACCGCGGTCTTGACGTGTCGTATCC	4620
Query	4621	CGACAGCGGGCATGTTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGG	4680
Sbjct	4621	CGACAGCGGGCATGTTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGCGAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGCGAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCCTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCCTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAACTTCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAACTTCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTGATCCGCCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTGATCCGCCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGATGAAGTCACCTGACGCACCCAATCACCATAATCATATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGATGAAGTCACCTGACGCACCCAATCACCATAATCATATGA	5280
Query	5281	CATGATGTGCGGCCACCTGGAGGTGCTCACGAGCACTGGGTGCTCGTGGCGGGCTCC	5340
Sbjct	5281	CATGATGTGCGGCCACCTGGAGGTGCTCACGAGCACTGGGTGCTCGTGGCGGGCTCC	5340
Query	5341	TGGCTGCTCTGGCCCGGTATTGCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCCGGTATTGCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCGCAATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCGCAATGCAGAGGTTATCA	5580
Query	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTTCTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTTCTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA	5700

Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCGCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCGCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CGCCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAAGGTATGGCGCGGGCGTGGCGGAGGAGCTCTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAAGGTATGGCGCGGGCGTGGCGGAGGAGCTCTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCTGGTGTGGTCTGCGCAGCAATCTGCGCCGGCAGGTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCTGGTGTGGTCTGCGCAGCAATCTGCGCCGGCAGGTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGCTAATAGCCTTCGCCCTCCCGGGGA	6120
Query	6121	ACCATGTTTCCCCACGCACACTACGTGCCGGAGAGCGATGCGAGCCGCCCGGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCACGCACACTACGTGCCGGAGAGCGATGCGAGCCGCCCGGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTTCACTGTAAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTTCACTGTAAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATAATGCGAGG	6300
Sbjct	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATAATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Query	6361	CTTTGTGTCTCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CTTTGTGTCTCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCA	6540
Sbjct	6481	TCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCCCTCCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCCCTCCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCGTGCCAGATCCCATCGCCGCAATTTTCACAGAAITGGAGC	6720
Sbjct	6661	CTGACAATCTTAAATGCCGTGCCAGATCCCATCGCCGCAATTTTCACAGAAITGGAGC	6720
Query	6721	GGGTGCGCTTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCTTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCGAACCGG	6840

Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGCGG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGCGG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCGAGCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAAACATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAAACATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCCGAGAAATCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGCCGGACTACAACCCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TTTGGGCGCGCCGGACTACAACCCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCG	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCCG	7320
Query	7321	CTCGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCATATCTACTGCCCTTGGCGAGC	7380
Sbjct	7321	CTCGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCATATCTACTGCCCTTGGCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGGACTCCGACGTGAGTCCATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGGACTCCGACGTGAGTCCATTCTT	7500
Query	7501	CCATGCCCCCTTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGTCGA	7560
Sbjct	7501	CCATGCCCCCTTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGTCGA	7560
Query	7561	CGGTGAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561	CGGTGAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Query	7621	CAGGCGCACTCGTACCCCGTGCGCTGCGGAAGAACAATAATGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTACCCCGTGCGCTGCGGAAGAACAATAATGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTCACGCGAGTGCTTGGC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTCACGCGAGTGCTTGGC	7740
Query	7741	AAAGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACAGGAGC	7800
Sbjct	7741	AAAGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACAGGAGC	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
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Query	7921	ACGTCCGTGTCATGCCAGGAAAGGCCGTAGCCCAATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTGTCATGCCAGGAAAGGCCGTAGCCCAATCAACTCCGTGTGGAAAGACCTTC	7980

Query	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTACGCCTGAGAGGGGGGTCGTAAAGCAGCTCGTCTCATCGTGTCCCGGACCTGGGGG	8100
Sbjct	8041	TTACGCCTGAGAGGGGGGTCGTAAAGCAGCTCGTCTCATCGTGTCCCGGACCTGGGGG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCGCGGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCGCGGTGA	8160
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Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACACGAGCAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTACTCCA	8280
Sbjct	8221	CGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGTGCCCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGTGCCCGCGAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCCGCGAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCCGCGAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACCGGAGGCTATGACCAAGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACCGGAGGCTATGACCAAGTACT	8640
Query	8641	CGGcccccccggggccccccaAACCAGAAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CGGCCCCCCCCGGGGCCCCCACAACCAGAAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CTTCAACGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGTCTACTACCTTACCCTGT	8760
Sbjct	8701	CTTCAACGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGTCTACTACCTTACCCTGT	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGACAGGCTCTTAACGTGAGA	8940
Sbjct	8881	CCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGACAGGCTCTTAACGTGAGA	8940
Query	8941	TCTAGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCAATTCAAAGACTCC	9000
Sbjct	8941	TCTAGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCAATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGTGGCCG	9060
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGTGGCCG	9060
Query	9061	CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCAGGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCAGGCTTGGAGACACCGGGCCCGGAGCG	9120

Score = 285 bits (154), Expect = 6e-73
Identities = 177/187 (94%), Gaps = 6/187 (3%)
Strand=Plus/Plus

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>gb|AR110831.1|AR110831 Sequence 5 from patent US 6127116
Length=12980
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Sort alignments for this subject sequence

E value	Score	Percent identity	Query start position	Subject start position
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Score = 1.732e+04 bits (9377), Expect = 0.0
Identities = 9458/9498 (99%), Gaps = 1/9498 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGGCAGACTCCACCATGAATCACTCCCCTGTGAGGAACACTCTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGGCAGACTCCACCATGAATCACTCCCCTGTGAGGAACACTCTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTGCAGCCTCCAGGAC	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTGCAGCCTCCAGGAC	120
Query	121	cccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTCTTGATAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCCC	240

Sbjct	181	GACGACCGGGTCTTCTTGGATAAACCCGCTCAATGCCTGGAGATTITGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGAAAGGCCCTTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGAAAGGCCCTTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGAGTGCCCGGAGGCTCTGCTAGACCGTGACCATGAGCAGCAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGAGTGCCCGGAGGCTCTGCTAGACCGTGACCATGAGCAGCAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCGCGGGT	420
Sbjct	361	CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCGCGGGT	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGGACGAGGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Sbjct	481	GCGGACGAGGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Query	541	AGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTATG	600
Sbjct	541	AGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTATG	600
Query	601	GCAATGAGGGTTCGCGGGTGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGCT	660
Sbjct	601	GCAATGAGGGTTCGCGGGTGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCGGCGTAGGTGCGCAATTTGGGTAAGGTGATCGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCGGCGTAGGTGCGCAATTTGGGTAAGGTGATCGATACCCCTTA	720
Query	721	CGTGGCGCTTCGCCGACCTCATGGGGTACATACCGCTCGTGGCGCCCCCTCTGGAGGGG	780
Sbjct	721	CGTGGCGCTTCGCCGACCTCATGGGGTACATACCGCTCGTGGCGCCCCCTCTGGAGGGG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGTTCTGGAAGACGGCGTGAAGTATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGTTCTGGAAGACGGCGTGAAGTATGCAACAG	840
Query	841	GGAACCTTCTGGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGCTGACTG	900
Sbjct	841	GGAACCTTCTGGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCAGCAATTCCTCGGGGCTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCAGCAATTCCTCGGGGCTTACCATGTCACCAATGATT	960
Query	961	GCCTTAACCTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCTTAACCTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCTTTCGCTTCGCGAGGGTAACGCCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCTTTCGCTTCGCGAGGGTAACGCCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTGATATGATCTGCTTGTGC	1140
Sbjct	1081	CCACAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTGATATGATCTGCTTGTGC	1140
Query	1141	GAGGGCCGACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGCGGGGCTGTGCTTTCTTG	1200
Sbjct	1141	GAGGGCCGACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGCGGGGCTGTGCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAGTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAGTGGT	1320
Query	1321	CCCTCAGGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380

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Sbjct 1321 CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA 1380
Query 1381 TGATCGCTGGTGTCTACTGGGGAGTCTCTGGCGGGCATAGCGTATTTCCTCATGGTGGGGA 1440
Sbjct 1381 TGATCGCTGGTGTCTACTGGGGAGTCTCTGGCGGGCATAGCGTATTTCCTCATGGTGGGGA 1440
Query 1441 ACTGGGCGAAGGTCCTGGTAGTGTCTGCTCTATTTCGCCGCGTGCAGCGGAAACCCAGC 1500
Sbjct 1441 ACTGGGCGAAGGTCCTGGTAGTGTCTGCTCTATTTCGCCGCGTGCAGCGGAAACCCAGC 1500
Query 1501 TCACCGGGGGAAATGCCGCGCGCACCACGGCTGGGCTTGTGTGCTCTCCTTACACAGGGCG 1560
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Query 1981 GCAATTGGTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC 2040
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Query 2041 CCCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC 2100
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Query 2161 GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGATACCATCAATTACACCATAT 2220
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Query 2221 TCAAAGTCAGGATGTACGTGGGAGGGTGCAGCACAGGCTGGAAGCGGCTGCAACTGGA 2280
Sbjct 2221 TCAAAGTCAGGATGTACGTGGGAGGGTGCAGCACAGGCTGGAAGCGGCTGCAACTGGA 2280
Query 2281 CGCGGGGCGAAGCCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCCGTTGCTGC 2340
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Sbjct 2341 TGTCACCACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCTCA 2400
Query 2401 CCGGCCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGTAGGGT 2460
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Query 2461 CAAGCATCGGCTCTGGGCCATTAAATGGGAGTACGTCGTTCTCTGTTCTTCTGCTTGG 2520
Sbjct 2461 CAAGCATCGGCTCTGGGCCATTAAATGGGAGTACGTCGTTCTCTGTTCTTCTGCTTGG
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Sbjct	2461	CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTCTCTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTTGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTTGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCGGGACGACAGGCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCGGGACGACAGGCTTGTGT	2640
Query	2641	CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGAGCGG	2700
Sbjct	2641	CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTCCTCTCTGCTCTGCTGGCGTTGCCCTCAGCGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTCCTCTCTGCTCTGCTGGCGTTGCCCTCAGCGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCGCGTCGTGTGGCGCGGTGTCTTGTGCGGGTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCGCGTCGTGTGGCGCGGTGTCTTGTGCGGGTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCTCAACGTCC	2940
Query	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACTTGGTATTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTGTACACCCGACTTGGTATTG	3000
Query	3001	ACATCACCAACTACTCTCTGCCATCTTCGGACCCCTTGGATTCTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAACTACTCTCTGCCATCTTCGGACCCCTTGGATTCTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCTACTTCTGTCGCGTTTCAAGGCCCTTCTCCGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCTACTTCTGTCGCGTTTCAAGGCCCTTCTCCGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAAGGCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAAGGCTGCGAGATC	3240
Query	3241	TGGCGTGGCTGTGGAACAGTCGTCTTCTCCGAAATGGAGACCAAGCTCATCAGTGGG	3300
Sbjct	3241	TGGCGTGGCTGTGGAACAGTCGTCTTCTCCGAAATGGAGACCAAGCTCATCAGTGGG	3300
Query	3301	GGCGAGATACCGCCGCGTGGGTGACATCATCAACGGCTTGGCCGCTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGCGAGATACCGCCGCGTGGGTGACATCATCAACGGCTTGGCCGCTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATAGTCTTGGGCCAGCCGACGGAATGGTCTCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATAGTCTTGGGCCAGCCGACGGAATGGTCTCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCATCACGGGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCATCACGGGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCTTGGAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGCGCGAA	3600
Sbjct	3541	AAACCTTCTTGGAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGCGCGAA	3600
Query	3601	CGAGGACCATCGCATACCCAGGGTCTGTCTCCAGATGTATACCAATGTGGACCAAG	3660

Sbjct	3601	CGAGGACCATCGCATACCCCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCGTGACCTGCGGGT	3720
Sbjct	3661	ACCTTGTGGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCGTGACCTGCGGGT	3720
Query	3721	CCTCGGACCTTTTACCTGGTGCACGAGGCACGCCGATGTCAATTCCCGTGGCCGCGCAGGGT	3780
Sbjct	3721	CCTCGGACCTTTTACCTGGTGCACGAGGCACGCCGATGTCAATTCCCGTGGCCGCGCAGGGT	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCCGCGCCATTTCCTACTTTGAAAGGCTCCTCGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCCGCGCCATTTCCTACTTTGAAAGGCTCCTCGGGG	3840
Query	3841	GTCCGCTGTTTGTGCCCGCGGCACACGCCGTGGGCTATTTCAGGCGCGCGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTTGTGCCCGCGGCACACGCCGTGGGCTATTTCAGGCGCGCGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACITTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACITTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCCTCCACCAGCAGTGCCCCAGAGCTTCACAGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCCTCCACCAGCAGTGCCCCAGAGCTTCACAGTGGCCC	4020
Query	4021	ACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAGGTTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAGGTTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCTACGGCACTGTCTTACCAAGCAGAGACTGCGGGGGCAGAGCTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCTACGGCACTGTCTTACCAAGCAGAGACTGCGGGGGCAGAGCTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGCTCACTGTGTCCCATCCTAACATCGAGGAGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGCTCACTGTGTCCCATCCTAACATCGAGGAGTTGCTC	4440
Query	4441	TGTCCACCACCAGGAGAGATCCCCCTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCAGGAGAGATCCCCCTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCAGCAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCAGCAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGGCTACTACCGCGGCTCTGACGTGCTGTGATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGGCTACTACCGCGGCTCTGACGTGCTGTGATCC	4620
Query	4621	CGACCAGCGCGATGTTGTGCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGG	4680
Sbjct	4621	CGACCAGCGCGATGTTGTGCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCTTACCTTTTACATTGAGACAACACGCTCCCCAGGATGCTGTCTTCAGGACTCAAC	4800

Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGCGAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGCGAGGGGGAAGCCAGGCATCTACAGATTGTGGCACCAGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGCTGTGCTT	4920
Sbjct	4861	GCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACAGCGTACATGAACACCCCG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACAGCGTACATGAACACCCCG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCACTTTGAATTTTGGGAGGGCGCTTTACGGGCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCACTTTGAATTTTGGGAGGGCGCTTTACGGGCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAGAAATGAAGTCAACCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAGAAATGAAGTCAACCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTGCGCCGACCTGGAGGTCGTCAAGACCTGGGTGCTCGTGTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTGCGCCGACCTGGAGGTCGTCAAGACCTGGGTGCTCGTGTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATG	5400
Query	5401	TCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAGGCGCTCGGCCCTCCTGCAGACCGCGTCCCGCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAGGCGCTCGGCCCTCCTGCAGACCGCGTCCCGCATGCAGAGGTTATCA	5580
Query	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAAACCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAAACCCGCCA	5700
Query	5701	TGCTTCATTGATGGCTTTTACAGCTGCGCTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TGCTTCATTGATGGCTTTTACAGCTGCGCTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGGTCGCCCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGGTCGCCCTA	5820
Query	5821	CTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGGGGCGTGGCGGAGCTCTTGTAGCATTC	5940

Sbjct 5881 TCCTCGTGGACATCTTGCAAGGTATGGCGCGGGCGTGGCGGGAGCTCTTTAGCCTTCA 5940

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Sbjct 5941 AGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCGCCATCC 6000

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Sbjct 6001 TCTCGCCTGGAGCCCTTGTAGTCTGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGTTG 6060

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Sbjct 6061 GCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGA 6120

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Sbjct 6121 ACCATGTTTCCCCACGCACTACGTGCGGAGAGCGATGAGCCGCCCGCTCACTGCCA 6180

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Sbjct 6181 TACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG 6240

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Sbjct 6241 AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG 6300

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Sbjct 6301 TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT 6360

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Sbjct 6361 CCTTTGTGTCTCGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA 6420

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Sbjct 6541 CGGGCCCCGTGACTCCCCCTCTCGCGCGAAGCTATAAGTTCGCGCTGTGGAGGGTGTCTG 6600

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9/8/2009

Sbjct	8161	TGGGAAGCTCTACGGATTCCAATACACCAGGACAGCGGGTTGAATTCTCTGTGCAAG	8120
Query	8221	CGTGGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGACTCCA	8280
Sbjct	8221	CGTGGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGGCATCCGTACGGAGGAGGCAATTACCAATGTTGTGACCTGGACC	8340
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Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAGGGGGGAAAACTCGCGCTACCGCAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Sbjct	8401	CCAATTCAGGGGGGAAAACTCGCGCTACCGCAGGTGCCGCGCAGCGCGCTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCTTCACTTGCTACATCAAGCGCGGACGCTGCGAGCCGAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCTTCACTTGCTACATCAAGCGCGGACGCTGCGAGCCGAG	8520
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Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGCGCGCGCGGGGACCCCAACAGAAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCGCGCGCGGGGACCCCAACAGAAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTAGTGCAGCCAGCAGCGCGTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTAGTGCAGCCAGCAGCGCGTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCTCCACACTGTGGGCAGGATGATATGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCTCCACACTGTGGGCAGGATGATATGATGA	8880
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Sbjct	8881	CCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGAGA	8940
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Sbjct	8941	TCTACGGAGCCTGTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCAATTTTCACTCCACAGTTACTTCCAGGTGAAATCAATAGGGTGCCG	9060
Sbjct	9001	ATGGCCTCAGCGCAATTTTCACTCCACAGTTACTTCCAGGTGAAATCAATAGGGTGCCG	9060
Query	9061	CATGCCCTAGAAAATCTGGGGTCCGCCCTTGGCAGCTTGGAGACACGGGCCCGGAGCG	9120
Sbjct	9061	CATGCCCTAGAAAATCTGGGGTCCGCCCTTGGCAGCTTGGAGACACGGGCCCGGAGCG	9120
Query	9121	TCCGCGCTAGGCTTCTGTCTCAGAGGAGGACAGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCTCAGAGGAGGACAGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Query	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGTGGCCGGCTGGACT	9240
Sbjct	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGTGGCCGGCTGGACT	9240
Query	9241	TGTCGGTGTGGTTACGGCTGCTACAGCGGGGAGACATTATCACAGCGTGTCTCATG	9300
Sbjct	9241	TGTCGGTGTGGTTACGGCTGCTACAGCGGGGAGACATTATCACAGCGTGTCTCATG	9300
Query	9301	CCGCGCCCGCGTGGTTCTGGTTTGGCTACTCTGCTCGCTGACGGGGTAGGCATCTACC	9360

Score = 285 bits (154), Expect = 6e-73
Identities = 177/187 (94%), Gaps = 6/187 (3%)
Strand=Plus/Plus

>emb|GN088768.1| Sequence 3 from Patent WO2009030872
Length=9599

Score = 1.731e+04 bits (9374), Expect = 0.0
Identities = 9525/9600 (99%), Gaps = 2/9600 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTGTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTGTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGGCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGGCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCCTTCTTGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCCCTTCTTGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCCTTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCCTTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCTGACCGTGCACCATGAGCAGAACTCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCTGACCGTGCACCATGAGCAGAACTCTAAAC	360
Query	361	CTCAAGAAAAACCAACCTACCAACCGCTCGCCACAGACGCTCAAGTTCGGGGTG	420
Sbjct	361	CTCAAGAAAAACCAACCTACCAACCGCTCGCCACAGACGCTCAAGTTCGGGGTG	420
Query	421	GCGGTGAGTCTGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTGAGTCTGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCACACCTCGAGGTAGAGCTCAGCCTATCCCCA	540

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Sbjct 481      |||
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Query 541      |||
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Sbjct 541      |||
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Query 601      |||
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Sbjct 601      |||
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Query 661      |||
GGGGCCCCACAGACCCCCGGCTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA 720
Sbjct 661      |||
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Query 721      |||
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Sbjct 721      |||
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Query 781      |||
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Sbjct 781      |||
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Query 841      |||
GGAACCTTCCCTGGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGGCTGACTG 900
Sbjct 841      |||
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Query 901      |||
TGCCCGCTTCAGCCTACCAAGTGCAGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT 960
Sbjct 901      |||
TGCCCGCTTCAGCCTACCAAGTGCAGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT 960
Query 961      |||
GCCCTAATTCGAGTATTGTGTACGAGGCGGCCGATGCCATCTCGCACACTCCGGGGTGTG 1020
Sbjct 961      |||
GCCCTAATTCGAGTATTGTGTACGAGGCGGCCGATGCCATCTCGCACACTCCGGGGTGTG 1020
Query 1021      |||
TCCTTTCGCTTCGCGAGGGTAACGCCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG 1080
Sbjct 1021      |||
TCCTTTCGCTTCGCGAGGGTAACGCCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG 1080
Query 1081      |||
CCACCAGGGACGGCAAACTCCCAACACGAGCTTCGACGTCATATCGATCTGCTTGTGCG 1140
Sbjct 1081      |||
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Query 1141      |||
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Sbjct 1141      |||
GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG 1200
Query 1201      |||
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Sbjct 1201      |||
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Query 1260      |||
TCTATCTATCCCGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAGTGG 1319
Sbjct 1260      |||
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Query 1320      |||
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Sbjct 1320      |||
TCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGAC 1379
Query 1380      |||
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Sbjct 1380      |||
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Query 1440      |||
AACTGGGCGAAGTCCCTGGTAGTGTGCTGCTATTTCGCGCGCTCGACGCGGAAACCCAC 1499
Sbjct 1440      |||
AACTGGGCGAAGTCCCTGGTAGTGTGCTGCTATTTCGCGCGCTCGACGCGGAAACCCAC 1499
Query 1500      |||
GTCACCGGGGGAAATGCCGGCCGACACCGGCTGGGCTTGTGGTCTCCTTACACCAAGGC 1559
Sbjct 1500      |||
GTCACCGGGGGAAGTGCCGGCCACACACCGGCTGGGCTTGTGGTCTCCTTACACCAAGGC 1559
Query 1560      |||
GCCAAGCAGAATCCAATGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCC 1619
Sbjct 1560      |||
GCCAAGCAGAATCCAATGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCC 1619
Query 1620      |||
TTGAATTGCAATGAAAGCCTTAACACCGGCTGGTGTAGCAGGGCTCTTCTATCAACACAAA 1679

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Sbjct 1620 TTGAAGTCAACGATAGCCTTACCACCGGCTGGTTAGCAGGGCTCTTCTATCGCCACAAA 1679
Query 1680 TTCAACTCTTCAGGCTGTCTCTGAGAGGTTGGCCAGCTGCCGAGCGCTTACCGATTITGGC 1739
|||||
Sbjct 1680 TTCAACTCTTCAGGCTGTCTCTGAGAGGTTGGCCAGCTGCCGAGCGCTTACCGATTITGGC 1739
Query 1740 CAGGGCTGGGGTCTCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCCTACTGC 1799
|||||
Sbjct 1740 CAGGGCTGGGGTCTCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCCTACTGC 1799
Query 1800 TGGCACTACCCCTCCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCCGGTA 1859
Sbjct 1800 TGGCACTACCCCTCCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCCGGTA 1859
Query 1860 TATTGCTTCACTCCACGCCCGGTGGTGGGAACGACCGACAGGTGCGGCGCGCTACC 1919
Sbjct 1860 TATTGCTTCACTCCACGCCCGGTGGTGGGAACGACCGACAGGTGCGGCGCGCTACC 1919
Query 1920 TACAGCTGGGGTGCAAAATGATACGGAATGCTTCGTCTTAAACAACACGAGGCCACCGCTG 1979
Sbjct 1920 TACAGCTGGGGTGCAAAATGATACGGAATGCTTCGTCTTAAACAACACGAGGCCACCGCTG 1979
Query 1980 GGCAATTGGTTCGGTTGTACCTGGATGAAGTCAACTGGATTACCAAAGTGTGCGGAGCG 2039
Sbjct 1980 GGCAATTGGTTCGGTTGTACCTGGATGAAGTCAACTGGATTACCAAAGTGTGCGGAGCG 2039
Query 2040 CCCCCCTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCACTGATTGCTTC 2099
Sbjct 2040 CCCCCCTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCACTGATTGCTTC 2099
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Sbjct 2100 CGCAAAACATCCGGAAGCCACATCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGG 2159
Query 2160 TGCATGGTCTGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATA 2219
Sbjct 2160 TGCATGGTCTGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATA 2219
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Sbjct 2220 TTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGG 2279
Query 2280 ACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTG 2339
Sbjct 2280 ACGCGGGGCGAGCGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTG 2339
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Sbjct 2340 CTGTCCACCACAGATGGCAGGTCCCTTCGTGTTCTTTACGACCTGCCAGCCCTTGTC 2399
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Sbjct 2400 ACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGACGACTTGTACGGGGTAGGG 2459
Query 2460 TCAAGCATCGCGTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTCTCTCTGCTT 2519
Sbjct 2460 TCAAGCATCGCGTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTCTCTCTGCTT 2519
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Sbjct 2520 GCAGACGCGCGGCTCTGCTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGGC 2579
Query 2580 GCTTTGAGAACTCGTAATACTCAATGAGCATCCCTGGCCGGGACGACGGTCTTTGTG 2639
Sbjct 2580 GCTTTGAGAACTCGTAATACTCAATGAGCATCCCTGGCCGGGACGACGGTCTTTGTG 2639
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Sbjct 2640 TCCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCG 2699
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Sbjct 2700 GTCTACGCCCTCTACGGGATGTGGCCTCTCCTCTGCTCTGCTGGCGTTGCTCTACGCG 2759
Query 2760 GCATACGCACTGGACACGAGGTGGCCGCGTCTGTGGCGGCTGTGTTCTGTGCGGGTTA 2819
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Sbjct 2760 GCATACGCCTAGTGACACGAGGTGGCCGCGTCTGTGGCGGCTTGTCTTGTGCGGGTTA 2819
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Sbjct 2820 ATGGCGCTGACTCTGTGACCATATTACAAGCGCTATATACAGCTGGTGATGTGGTGGCTT 2879
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Sbjct 2880 CAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTC 2939
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Sbjct 2940 CGGGGGGGGGCGGATGCGGTCATCTTACTCATGTGTGTGTAGTACACCCGACTCTGGTATTT 2999
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Sbjct 3000 GACATCACCAAACTACTCTCTGGCCATCTTCGGACCCCTTGGATCTTCAAGCCAGTTTG 3059
Query 3060 CTTAAAGTCCCCTACTTCTGTCGCGTTCAAGGCCCTTCTCCGGAATGCGCGCTAGCGCGG 3119
Sbjct 3060 CTTAAAGTCCCCTACTTCTGTCGCGTTCAAGGCCCTTCTCCGGAATGCGCGCTAGCGCGG 3119
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Sbjct 3120 AAGATAGCCGAGGCCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGC 3179
Query 3180 ACCTATGTGTATAAACCATCTCACCCCTCTTCGAGACTGGGCGCAACAAGCGCTGCGAGAT 3239
Sbjct 3180 ACCTATGTGTATAAACCATCTCACCCCTCTTCGAGACTGGGCGCAACAAGCGCTGCGAGAT 3239
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Sbjct 3240 CTGGCCGTGGCTGTGGAACAGTCTGTCTTCTCCGGAATGGAGACCAAGCTCATACGTGG 3299
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Sbjct 3300 GGGGAGATATACCCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGG 3359
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Sbjct 3360 GGTCAAGGAGATACTGCTTGGGCCAGCCGACGGAATGGCTTCAAGGGGTGGAGGTGCTG 3419
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Sbjct 3420 GCGCCCATCACGGCGTACGCCAGCAGAGAGGCCCTCTAGGGTGTATAATCACCAGC 3479
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Sbjct 3480 CTGACTAGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGTCTACC 3539
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Sbjct 3540 CAAACCTTCTTGCAACGTGATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGA 3599
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Sbjct 3600 ACGAGGACCATCGCATCACCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCAA 3659
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Sbjct 3660 GACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCGTGACCTGCGGC 3719
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Sbjct 3720 TCCTCGGACCTTTACCTGGTCACGAGGCAGCCGATGTCTCCGTCGCGCGGCGAGGT 3779
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Sbjct 3780 GATAGCAGGGGTAGCTGCTTTCGCCCCGGCCATTTCCTACTTGAAAGGCTCTCTGGGG 3839
Query 3840 GGTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCCATTACAGGGCCGCGGTGTGACC 3899
Sbjct 3840 GGTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCCATTACAGGGCCGCGGTGTGACC 3899
Query 3900 CGTGAGATGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAAACATGAGA 3959


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Sbjct 3900 CGTGGAGTGGCCAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGACAAACATGAGA 3959
Query 3960 TCCCCGGTGTTACAGGACAACCTCCTCTCCACCAGCAGTGCCCAGAGCTTCAGGTGGCC 4019
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Sbjct 3960 TCCCCGGTGTTACAGGACAACCCCTCTCCACCAGCAGTGCCCAGAGCTTCAGGTGGCC 4019
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Sbjct 4080 CAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTGTGTCGCAACGCTGGGCTTTGGTGCT 4139
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Sbjct 4140 TACATGTCCAAAGGCCATGGGGTCGATCCCTAATATCAGGACCGGGGTGAGAACAAATTACC 4199
Query 4200 ACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCA 4259
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Sbjct 4200 ACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCA 4259
Query 4260 GGAGGTGCTTATGACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCATC 4319
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Sbjct 4260 GGAGGCGCTTATGACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCATC 4319
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Sbjct 4320 TTGGGCATCGGCAGTGTCTTGTACCAAGCAGAGACTGCGGGGCGAGATTGGTTGTGCTC 4379
Query 4380 GCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCATCCTAACATCGAGGAGGTTGCT 4439
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Sbjct 4380 GCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCATCCTAACATCGAGGAGGTTGCT 4439
Query 4440 CTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAG 4499
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Sbjct 4440 CTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAG 4499
Query 4500 GGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGCAGAGCTCGCCGGCAG 4559
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Sbjct 4500 GGGGGAAGACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCGCAGAGCTCGCCGGCAG 4559
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Sbjct 4560 CTGGTCGCAATTGGGCATCAATGCCGTGGCCTACTACCGGGCTTGACGCTGTCTGTCACT 4619
Query 4620 CCGACCAGCGGCGATGTTGTGTCGTGTGACCGCATGCTCTCATGACTGGCTTTACCGGC 4679
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Sbjct 4620 CCGACCAGCGGCGATGTTGTGTCGTGTGACCGCATGCTCTCATGACTGGCTTTACCGGC 4679
Query 4680 GACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCCT 4739
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Sbjct 4680 GACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCCT 4739
Query 4740 GACCCCTACCTTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAA 4799
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Sbjct 4740 GACCCCTACCTTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAG 4799
Query 4800 CGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGGAG 4859
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Sbjct 4800 CGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTGTGGCACCGGGGGAG 4859
Query 4860 CGCCCTCCCGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCT 4919
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Sbjct 4860 CGCCCTCCCGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCT 4919
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Sbjct 4920 TGGTATGAGCTACGCGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCG 4979
Query 4980 GGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCCTCACT 5039
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Sbjct 4980 GGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCCTCACC 5039
Query 5040 CATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACCTG 5099
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Sbjct  5100  |||
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Query  5160  |||
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Sbjct  5160  |||
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Query  5220  |||
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Query  5280  |||
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Sbjct  5280  |||
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Query  5340  |||
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Sbjct  5340  |||
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Query  5400  |||
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Sbjct  5400  |||
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Query  5460  |||
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Sbjct  5460  |||
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Query  5520  |||
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Sbjct  5520  |||
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Query  5580  |||
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Sbjct  5580  |||
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Query  5640  |||
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Sbjct  5640  |||
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Query  5700  |||
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Sbjct  5700  |||
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Sbjct  5760  |||
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Query  5820  |||
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Sbjct  5820  |||
ACCGCCTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAG 5879
Query  5880  |||
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Sbjct  5880  |||
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Query  5940  |||
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Sbjct  5940  |||
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Query  6000  |||
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Sbjct  6000  |||
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Query  6060  |||
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Sbjct  6060  |||
GGCCCCGGGCGAGGGGCGAGTGAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGG 6119
Query  6120  |||
AACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGACGCGCCCGCGTCACTGCC 6179
Sbjct  6120  |||
AACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGACGCGCCCGCGTCACTGCC 6179
Query  6180  |||
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Sbjct  6180  ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGCGGACTGCATCAGTGGATAAGCTCG 6239
Query  6240  GAGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATAATGCGAG 6299
Sbjct  6240  GAGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATAATGCGAG 6299
Query  6300  GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT 6359
Sbjct  6300  GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT 6359
Query  6360  CCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC 6419
Sbjct  6360  CCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC 6419
Query  6420  ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAACGGGACGATGAGGATC 6479
Sbjct  6420  ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAACGGGACGATGAGGATC 6479
Query  6480  GTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCATTAACGCCTACACC 6539
Sbjct  6480  GTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCATTAACGCCTACACC 6539
Query  6540  ACGGGCCCCGTACTCCCCCTCCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGGTGTCT 6599
Sbjct  6540  ACGGGCCCCGTACTCCCCCTCCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGGTGTCT 6599
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Sbjct  6600  GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACATATCGGGTATGACT 6659
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Sbjct  6660  ACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGAC 6719
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Sbjct  6720  GGGGTGCGGCTACATAGGTTTGCGCCCTTGTCAAGCCCTTGTCTGCGGGAGGAGTATCA 6779
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Sbjct  6780  TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTAACCTTGCAGAGCCGAAACG 6839
Query  6840  GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCC 6899
Sbjct  6840  GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCC 6899
Query  6900  GGGAGAAGGTTGGCGAGAGGGTACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG 6959
Sbjct  6900  GGGAGAAGGTTGGCGAGAGGGTACCCCTTCTATGGCCAGCTCCTCGGCGAGCAGCTG 6959
Query  6960  TCCGTCCTACTCTCAAGGCAACTTGACCGCCAACCATGACTCCCTGACGCCGAGCTC 7019
Sbjct  6960  TCCGTCCTACTCTCAAGGCAACTTGACCGCCAATCATGACTCCCTGACGCCGAGCTC 7019
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Sbjct  7020  ATAGAGGCTAACCTCCTGTGGAGGAGGAGATGGGCGGCAACATACCAAGGGTTGAGTCA 7079
Query  7080  GAGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG 7139
Sbjct  7080  GAGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG 7139
Query  7140  GAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCC 7199
Sbjct  7140  GAGGTCTCCGTACCCGAGAAATTCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCC 7199
Query  7200  GTCTGGGCGCGGCCGACTACAACCCCCGCTAGTAGAGACGTGAAAAAGCCTGACTAC 7259
Sbjct  7200  GTTGGGCGCGGCCGACTACAACCCCCGCTAGTAGAGACGTGAAAAAGCCTGACTAC 7259
Query  7260  GAACCACTTGTGTTCCATGGCTGCCCGCTACCACTCCACGGTCCCTCTGTGCCTCCG 7319
Sbjct  7260  GAACCACTTGTGTTCCATGGCTGCCCGCTACCACTCCACGGTCCCTCTGTGCCTCCG 7319
Query  7320  CCTCGGAAAAGCGTACGGTGGTCTACCGAATCAACCTATCTACTGCTTTGGCCGAG 7379
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Sbjct 7320 CCTCGGAAAAACGTACGGTGGTCTCACCGAATCAACCTATCTACTGCTTGGCCGAG 7379
Query 7380 CTGTCACCAAAAGTTTGTGAGCTCCTCAACTTCCGGCATTACGGGGGCAATACGACA 7439
Sbjct 7380 CTGTCACCAAAAGTTTGTGAGCCCTCAACTTCCGGCATTACGGGGGCAATACGACA 7439
Query 7440 ACATCTCTGAGCCCGCCCTTCTGGCTGACGACGCTTGGAGTTCCTATTCT 7499
Sbjct 7440 ACATCTCTGAGCCCGCCCTTCTGGCTGCCCGCCGACTCCGAGGTTGAGTCTATTCT 7499
Query 7500 TCCATGCCCCCGTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTGATGGTCG 7559
Sbjct 7500 TCCATGCCCGCCCTGGAGGGGGAGCCTGGGGATCCGGATTTCAGCGACGGGTGATGGTCG 7559
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Sbjct 7560 ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCCTTATACCTGG 7619
Query 7620 ACAGGCGCACTCGTACCCCGTGCCTGCGGAAGAAACAAAACCTGCCATCAACGCACTG 7679
Sbjct 7620 ACAGGCGCACTCGTACCCCGTGCCTGCGGAAGAAACAAAACCTGCCATCAACGCACTG 7679
Query 7680 AGCAACTCGTTGTCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGAGTGCTTGC 7739
Sbjct 7680 AGCAACTCGTTGTCTACGCCATCACAATCTGGTATATTCACCACTTCACGAGTGCTTGC 7739
Query 7740 CAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCATTACCAAGGAC 7799
Sbjct 7740 CAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCATTACCAAGGAC 7799
Query 7800 GTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAG 7859
Sbjct 7800 GTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAG 7859
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Sbjct 7860 GAAGCTTGCAGCCTGACGCCCCACATTGAGCCAAATCCAAGTTTGGCTATGGGGGAAAA 7919
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Sbjct 8100 GTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCCCTGGCCGTG 8159
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Sbjct 8220 GCGTGGAAAGTCCAAGAAACCCCGATGGGGTCTCGTATGATACCCGCTGTTTTGACTCC 8279
Query 8280 ACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGAC 8339
Sbjct 8280 ACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGAC 8339
Query 8340 CCCCAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT 8399
Sbjct 8340 CCCCAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT 8399
Query 8400 ACCAATTCAAGGGGGGAAAACTCGGCTACCGCAGGTGCCGCGAGCGGCGTACTGACA 8459
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Query 8460 ACTAGCTGTGGTAACCCCTCACTTGCTACATCAAGGCCGGGACGCTGTCTGAGCCGCA 8519
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Sbjct	8460		ACTAGCTGTGGTAAACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCCGCA	8519
Query	8520		GGGCTCCAGGACTGCAACATGCTCGTGTGTGGCGACGACCTTAGTCGTTATCTGTGAAAGT	8579
Sbjct	8520		GGGCTCCAGGACTGCAACATGCTCGTGTGTGGCGACGACCTTAGTCGTTATCTGTGAAAGT	8579
Query	8580		GCGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAAGGTAC	8639
Sbjct	8580		GCGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAAGGTAC	8639
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Sbjct	8640		TCCGCCCCCCCCGGGAGCCCCACAACAGAATACGACTTGGAGCTTATAACATCATGC	8699
Query	8700		TCTTCCAACGCTGTCAGTCGCCCCACGACGGCGCTGGAAGAGGGTCTACTACCTTACCCGT	8759
Sbjct	8700		TCTTCCAACGCTGTCAGTCGCCCCACGACGGCGCTGGAAGAGGGTCTACTACCTTACCCGT	8759
Query	8760		GACCCATACAACCCCCCTCGGAGAGCGCGTGGGAGACAGCAAGACACACTCCAGTCAAT	8819
Sbjct	8760		GACCCATACAACCCCCCTCGGAGAGCGCGTGGGAGACAGCAAGACACACTCCAGTCAAT	8819
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Sbjct	8820		TCTTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATG	8879
Query	8880		ACCCATTTCCTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGAG	8939
Sbjct	8880		ACCCATTTCCTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGAG	8939
Query	8940		ATCTACGAGGCTGCTACTCCATAGAACCACTGGATCTACTCCAAATCATTCAAAGACTC	8999
Sbjct	8940		ATCTACGAGGCTGCTACTCCATAGAACCACTGGATCTACTCCAAATCATTCAAAGACTC	8999
Query	9000		CATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCC	9059
Sbjct	9000		CATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCC	9059
Query	9060		GCATGCCTCAGAAAACTTGGGGTCCCGCCTTGCGAGCTTGGAGACACCGGGCCGGAGC	9119
Sbjct	9060		GCATGCCTCAGAAAACTTGGGGTCCCGCCTTGCGAGCTTGGAGACACCGGGCCGGAGC	9119
Query	9120		GTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTC	9179
Sbjct	9120		GTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTC	9179
Query	9180		AACCTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAAATAGCGGCGCTGGCCGGCTGGAC	9239
Sbjct	9180		AACCTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAAATAGCGGCGCTGGCCGGCTGGAC	9239
Query	9240		TTGTCGGTGTGGTTACGGCTGGCTACAGCGGGGAGACATTTATCAGCGTGTCTCAT	9299
Sbjct	9240		TTGTCGGTGTGGTTACGGCTGGCTACAGCGGGGAGACATTTATCAGCGTGTCTCAT	9299
Query	9300		GCCCGGCCCCGCTGGTTCTGGTTTTTGCCCTACTCCTGCTCGCTGACAGGGGTAGGCATCTAC	9359
Sbjct	9300		GCCCGGCCCCGCTGGTTCTGGTTTTTGCCCTACTCCTGCTCGCTGACAGGGGTAGGCATCTAC	9359
Query	9360		CTCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGGCTCTTAAGCCATTTCTGT	9419
Sbjct	9360		CTCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGGCTCTTAAGCCATTTCTGT	9419
Query	9420		TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9479
Sbjct	9420		TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9479
Query	9480		CTTTCTTTTCCCTCTCTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGA	9539
Sbjct	9480		CTTTCTTTTCCCTCTCTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGA	9539
Query	9540		AAGGTCCGTGAGCCGATGACTGCAGAGAGTGCTGATACCTGGCCTCTCTGCAGATCATGT	9599
Sbjct	9540		AAGGTCCGTGAGCCGATGACTGCAGAGAGTGCTGATACCTGGCCTCTCTGCAGATCATGT	9599

>gb|EA372966.1| Sequence 2 from patent US 7314710
Length=9622

Score = 1.713e+04 bits (9277), Expect = 0.0
Identities = 9515/9626 (98%), Gaps = 31/9626 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGCGCACTCCACCATGA-ATCACTCCCCTGTGAGGAACACT	59
Sbjct	1	GCCAGCCCCCTGATGGGGCGCACTCCACCAT-AGATCACTCCCCTGTGAGGAACACT	59
Query	60	GTCTTCACGCAGAAAGCGCTAGCCATGGCGTTAGTATGAGTGTGTCGACGCTCCAGGA	119
Sbjct	60	GTCTTCACGCAGAAAGCGCTAGCCATGGCGTTAGTATGAGTGTGTCGACGCTCCAGGA	119
Query	120	CCCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA	179
Sbjct	120	CCCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA	179
Query	180	GACGACCGGGTCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC	239
Sbjct	180	GACGACCGGGTCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC	239
Query	240	CGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGAAAGGCCCTTGTGGTACTGCCTGATAG	299
Sbjct	240	CGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGAAAGGCCCTTGTGGTACTGCCTGATAG	299
Query	300	GGTGTCTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACGAATCCTAAA	359
Sbjct	300	GGTGTCTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACGAATCCTAAA	359
Query	360	CCTCAAAGAAAAACCAACGTAACCAACCGTCGCGCCACAGGACGTCAAGTTCCTGGGT	419
Sbjct	360	CCTCAAAGAAAAACCAACGTAACCAACCGTCGCGCCACAGGACGTCAAGTTCCTGGGT	419
Query	420	GCGCGTCAGATCGTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTG	479
Sbjct	420	GCGCGTCAGATCGTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTG	479
Query	480	CGCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTACGCTATCCCC	539
Sbjct	480	CGCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTACGCTATCCCC	539
Query	540	AAGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCCCTAT	599
Sbjct	540	AAGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCCCTAT	599
Query	600	GGCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCTAGC	659
Sbjct	600	GGCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCTAGC	659
Query	660	TGGGGCCCCACAGACCCCGCGTAGGTGCGCAATTGGGTAAAGTCATCGATACCCCT	719
Sbjct	660	TGGGGCCCCACAGACCCCGCGTAGGTGCGCAATTGGGTAAAGTCATCGATACCCCT	719
Query	720	ACGTGCGGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCCCTCTGGAGGC	779
Sbjct	720	ACGTGCGGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCCCTCTGGAGGC	779
Query	780	GCTGCGAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAATATGCAACA	839
Sbjct	780	GCTGCGAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAATATGCAACA	839
Query	840	GGGAACCTTCTGGTGTCTTTCTCTATCTTCTTCTGCGCCGTGCTCTCTGCTGACT	899
Sbjct	840	GGGAACCTTCTGGTGTCTTTCTCTATCTTCTTCTGCGCCGTGCTCTCTGCTGACT	899
Query	900	GTGCCCGCTTACGCTACCAAGTGCACCAATTCTCGGGGCTTACCATGTACCAATGAT	959
Sbjct	900	GTGCCCGCTTACGCTACCAAGTGCACCAATTCTCGGGGCTTACCATGTACCAATGAT	959
Query	960	TGCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGT	1019
Sbjct	960	TGCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGT	1019
Query	1020	GTCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTGGGTGCGCGGTGACCCCCACGGTG	1079

Sbjct	1020	GTCCCTTTCGCTTCGCGAGGGTAACGCCCTCAGAGTGTTGGGTGGCGGTGACCCCAACGGTG	1079
Query	1080	GCCACCAGGGACGCGAAACTCCCAACAACGACGCTTCGACGTCAATCGATTCGCTGTTC	1139
Sbjct	1080	GCCACCAGGGACGCGAAACTCCCAACAACGACGCTTCGACGTCAATCGATTCGCTGTTC	1139
Query	1140	GGGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTT	1199
Sbjct	1140	GGGAGCGCCACCCCTCTGCTCAGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTTTTCTT	1199
Query	1200	GTTGGTCAACTGTTTACCTTCTCTCCAGCGCCACTGGACGACGCAA--GACTGCAATTG	1258
Sbjct	1200	GTTGGTCAACTGTTTACCTTCTCTCCAGCGCCACTGGACGACGCAAAG--CTGCAATTG	1258
Query	1259	TTCATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACGT	1318
Sbjct	1259	TTCATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACGT	1318
Query	1319	GTCCCTTACGGCAGCGTGTGGTGGTAGCTCAGCTGCTCCGGATCCCAACGCCATCATGGA	1378
Sbjct	1319	GTCCCTTACGGCAGCGTGTGGTGGTAGCTCAGCTGCTCCGGATCCCAACGCCATCATGGA	1378
Query	1379	CATGATCGCTGGTGCTCCTACGTGGGAGTCCTGGCGGGCATAGCGTATTTCCTCATGGTGGG	1438
Sbjct	1379	CATGATCGCTGGTGCTCCTACGTGGGAGTCCTGGCGGGCATAGCGTATTTCCTCATGGTGGG	1438
Query	1439	GAACTGGGCGAAGGTCCTGTGTAGTGCTGCTGCTATTTCGCCGGCTCGACGCGGAAACCCA	1498
Sbjct	1439	GAACTGGGCGAAGGTCCTGTGTAGTGCTGCTGCTATTTCGCCGGCTCGACGCGGAAACCCA	1498
Query	1499	CGTCACCGGGGAAATGCCGGCCGACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGG	1558
Sbjct	1499	CGTCACCGGGGAAATGCCGGCCGACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGG	1558
Query	1559	CGCCAAAGCAGAATCCAACCTGATCAACCAACCGCGAGTTGGGCATCAATAGCAGCGG	1618
Sbjct	1559	CGCCAAAGCAGAATCCAACCTGATCAACCAACCGCGAGTTGGGCATCAATAGCAGCGG	1618
Query	1619	CTTGAAATGCAATGAAAGCCTTAACACCGCGTGGTTAGCAGGGCTCTTCTATCAACACAA	1678
Sbjct	1619	CTTGAACTGCAACGATAGCCTTAACACCGCGTGGTTAGCAGGGCTCTTCTATGCCACAA	1678
Query	1679	ATTCAACTCTTCAGGCTGTCTTGAGAGTTGGGCAGCTGCCGACGCGCTTACCGATTTTGC	1738
Sbjct	1679	ATTCAACTCTTCAGGCTGTCTTGAGAGTTGGGCAGCTGCCGACGCGCTTACCGATTTTGC	1738
Query	1739	CCAGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTG	1798
Sbjct	1739	CCAGGGCTGGGGTCCCATCAGTTATGCCAACGGAAGCGGCTTGACGAACGCCCTACTG	1798
Query	1799	CTGGCACTACCTCCAAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGT	1858
Sbjct	1799	TGGCACTACCTCCAAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGT	1858
Query	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTGCGGGCGGCCTAC	1918
Sbjct	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTGCGGGCGGCCTAC	1918
Query	1919	CTACAGCTGGGGTGCAAAATGATACGGATGCTTCCTGCTCTTAACAACACGAGGCCACCGCT	1978
Sbjct	1919	CTACAGCTGGGGTGCAAAATGATACGGATGCTTCCTGCTCTTAACAACACGAGGCCACCGCT	1978
Query	1979	GGGCAATTGGTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGC	2038
Sbjct	1979	GGGCAATTGGTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGC	2038
Query	2039	GCCCCCTTGTGCTATCGGAGGGTGGGCAACAACCTTGCTCTGCCCCACTGATTGCTT	2098
Sbjct	2039	GCCCCCTTGTGCTATCGGAGGGTGGGCAACAACCTTGCTCTGCCCCACTGATTGCTT	2098
Query	2099	CCGCAAACTCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCAG	2158
Sbjct	2099	CCGCAAACTCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCAG	2158
Query	2159	GTGATGGTGCACCTACCCGTATAGGCTTTGGCACTATCCTTGATACCATCAATTACACCAT	2218

Sbjct	2159		GTGCATGGTGCAGTACCCGTATAGGCTTTGGCACTATCCTTGTACTATCAATTACACCAT	2218
Query	2219		ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAAGCGGCCTGCAACTG	2278
Sbjct	2219		ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAAGCGGCCTGCAACTG	2278
Query	2279		GACGCGGGGGGAACGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCCGTTGCT	2338
Sbjct	2279		GACGCGGGGGGAACGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCCATTTGCT	2338
Query	2339		GCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTTACAGACCTGCCAGCCCTTGT	2398
Sbjct	2339		GCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTTACAGACCTGCCAGCCCTTGT	2398
Query	2399		CACCGGCCTCATCCACTCCACCAGAACATTGTGACGTGCAGTACTTGTACGGGGTAGG	2458
Sbjct	2399		CACCGGCCTCATCCACTCCACCAGAACATTGTGACGTGCAGTACTTGTACGGGGTAGG	2458
Query	2459		GTCAAGCATCGCGTCTGGGCCATTAAAGTGGGAGTACGTGCTTCTCCTGTTCTTCTGCT	2518
Sbjct	2459		GTCAAGCATCGCGTCTGGGCCATTAAAGTGGGAGTACGTGCTTCTCCTGTTCTTCTGCT	2518
Query	2519		TGCAGACGCGCGCTGTCTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Sbjct	2519		TGCAGACGCGCGCTGTCTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Query	2579		GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCTTGGCCGGAGCGCAGGCTTTGT	2638
Sbjct	2579		GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCTTGGCCGGAGCGCAGGCTTTGT	2638
Query	2639		GTCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGC	2698
Sbjct	2639		GTCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGC	2698
Query	2699		GGTCTACGCCCTCTACGGGATGTGGCCTCTCTCTGCTCCTGCTGGCGTTGCTCAGCG	2758
Sbjct	2699		GGTCTACGCCCTCTACGGGATGTGGCCTCTCTCTGCTCCTGCTGGCGTTGCTCAGCG	2758
Query	2759		GGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGGGTT	2818
Sbjct	2759		GGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGGGTT	2818
Query	2819		AATGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Sbjct	2819		AATGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Query	2879		TCAGTATTTCGACCAAGTAGAAGCGCAACTGCAGGTGTGGGTTTCCTTCAACGT	2938
Sbjct	2879		TCAGTATTTCGACCAAGTAGAAGCGCAACTGCAGGTGTGGGTTTCCTTCAACGT	2938
Query	2939		CCGGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCTTGTATT	2998
Sbjct	2939		CCGGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTGTAGTACACCCGACCTTGTATT	2998
Query	2999		TGACATACCAAATACTACTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Sbjct	2999		TGACATACCAAATACTACTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Query	3059		GCTTAAAGTCCCTACTTCTGTCGCGGTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGG	3118
Sbjct	3059		GCTTAAAGTCCCTACTTCTGTCGCGGTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGG	3118
Query	3119		GAAGAT-AGCCGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTG	3177
Sbjct	3119		GAAGATGA-CCGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTG	3177
Query	3178		GCACCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAG	3237
Sbjct	3178		GCACCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAG	3237
Query	3238		ATCTGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCAGT	3297
Sbjct	3238		ATCTGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCAGT	3297
Query	3298		GGGGGGCAGATACCGCCGCTGCGGTGACATCAACGGCTTGCCGCTCTTCCCGGTA	3357

Sbjct	3298	GGGGGCGAGATACGCCCGCGTGGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTA	3357
Query	3358	GGGGCCAGGAGATACTGCTTGGGGCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTCG	3417
Sbjct	3358	GGGGCCAGGAGATACTGCTTGGGGCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTCG	3417
Query	3418	TGGCGCCCATCACGCGGTACGCCCAGCAGACGAGAGGGCTCTTAGGGTGTATAATCACCA	3477
Sbjct	3418	TGGCGCCCATCACGCGGTACGCCCAGCAGACGAGAGGGCTCTTAGGGTGTATAATCACCA	3477
Query	3478	GCCTGACTGGCCGGGACAAAAACCAAGTGAGAGGTGAGGTCCAGATCGTGTCAACTGCTA	3537
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Query	3538	CCCAAACTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAAGGGGCGG	3597
Sbjct	3538	CCCAAACTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAAGGGGCGG	3597
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Sbjct	3598	GAACGAGGACCATCGCATACCCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACC	3657
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Sbjct	3658	AAGACCTTGTGGGTGTGCCCGCTCTCTCAAGGTTCGCCGTCAATTGACACCGTGTACCTGCG	3717
Query	3718	GCTCCTCGGACCTTTACTGTGTACGAGGCACGCCGATGTCAATCCCGTGCGCCGGCGAG	3777
Sbjct	3718	GCTCCTCGGACCTTTACTGTGTACGAGGCACGCCGATGTCAATCCCGTGCGCCGGCGAG	3777
Query	3778	GTGATAGCAGGGGTAGCCTGCTTTTCGCCCGGCCCAATTTCTACTTGAAAGGCTCCTCGG	3837
Sbjct	3778	GTGATAGCAGGGGTAGCCTGCTTTTCGCCCGGCCCAATTTCTACTTGAAAGGCTCCTCGG	3837
Query	3838	GGGGTCGCGTGTGTGGCCCGGGGACACGCCGTGGGCTATTACGGGCGCGGTGTGCA	3897
Sbjct	3838	GGGGTCGCGTGTGTGGCCCGGGGACACGCCGTGGGCTATTACGGGCGCGGTGTGCA	3897
Query	3898	CCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCTGTGGAGAACTTAGGACAACTATGA	3957
Sbjct	3898	CCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCTGTGGAGAACTTAGGACAACTATGA	3957
Query	3958	GATCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGTGG	4017
Sbjct	3958	GATCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGTGG	4017
Query	4018	CCCACCTGATGCTCCACCGGCAGCGGTAAAGACCAAGGTCGCCGTGCGTACGCAG	4077
Sbjct	4018	CCCACCTGATGCTCCACCGGCAGCGGTAAAGACCAAGGTCGCCGTGCGTACGCAG	4077
Query	4078	CCCAGGGCTACAAGGTGTGGTGTCTCAACCCCTCTGTTGTCTGAACGCTGGGCTTTGGTG	4137
Sbjct	4078	CCCAGGGCTACAAGGTGTGGTGTCTCAACCCCTCTGTTGTCTGAACGCTGGGCTTTGGTG	4137
Query	4138	CTTACATGTCCAAGGCCCATGGGGTGTATCCTAATACAGGACCGGGGTGAGACAAATTA	4197
Sbjct	4138	CTTACATGTCCAAGGCCCATGGGGTGTATCCTAATACAGGACCGGGGTGAGACAAATTA	4197
Query	4198	CCACTGGCAGCCCCATCAGTACTCCACTACGGCAAGTTCCTTGCCGACGGCGGGTGCT	4257
Sbjct	4198	CCACTGGCAGCCCCATCAGTACTCCACTACGGCAAGTTCCTTGCCGACGGCGGGTGCT	4257
Query	4258	CAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCA	4317
Sbjct	4258	CAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCA	4317
Query	4318	TCTTGGGATCGGCACGTGCTTCTTGACCAAGCAGAGACTCGGGGGCGAGACTGTTTGTGC	4377
Sbjct	4318	TCTTGGGATCGGCACGTGCTTCTTGACCAAGCAGAGACTCGGGGGCGAGACTGTTTGTGC	4377
Query	4378	TCGCCACTGCTACCCCTTCGGGCTCCGTACTGTGTCCCATCTTAACATCAGGAGGTTG	4437
Sbjct	4378	TCGCCACTGCTACCCCTTCGGGCTCCGTACTGTGTCCCATCTTAACATCAGGAGGTTG	4437
Query	4438	CTCTGTCCACCACCGGAGAGATCCCTTTT-TACGGCAAGGCTATCCCTTCGAGGTGATC	4497

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Sbjct 4438 |CTCTGTCCACCACCGGAGAGATCCC-TTTCTACGGCAAGGCTATCCCCCTCGAGGTGATC| 4496
Query 4497 |AAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAGAAAGTGCAGCAGCTCGCCGGG| 4556
Sbjct 4497 |AAGGGGGGAAGACATCTCATCTTCTGTCACTCAAAGAGAAAGTGCAGCAGCTCGCCGGG| 4556
Query 4557 |AAGCTGGTGCATTTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCT| 4616
Sbjct 4557 |AAGCTGGTGCATTTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTCT| 4616
Query 4617 |ATCCCGACCAAGCGCGCATGTTGTCTGTCTGTCTGACCGATGCTCTCATGACTGGCTTTTACC| 4676
Sbjct 4617 |ATCCCGACCAAGCGCGCATGTTGTCTGTCTGTCTGACCGATGCTCTCATGACTGGCTTTTACC| 4676
Query 4677 |GGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGCTACTCAGACAGTCGATTTTACG| 4736
Sbjct 4677 |GGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGCTACTCAGACAGTCGATTTTACG| 4736
Query 4737 |CTTGACCCCTACCTTTTACCATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACT| 4796
Sbjct 4737 |CTTGACCCCTACCTTTTACCATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACT| 4796
Query 4797 |CAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGG| 4856
Sbjct 4797 |CAGCGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTGTGGCACCAGGGG| 4856
Query 4857 |GAGCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGTATGACGCGGGCTGT| 4916
Sbjct 4857 |GAGCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGTATGACGCGGGCTGT| 4916
Query 4917 |GCTTGGTATGAGCTACGCGCCCGGAGACTACAGTTAGGCTACGAGCGTACATGAACACC| 4976
Sbjct 4917 |GCTTGGTATGAGCTACGCGCCCGGAGACTACAGTTAGGCTACGAGCGTACATGAACACC| 4976
Query 4977 |CCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCCT| 5036
Sbjct 4977 |CCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCCT| 5036
Query 5037 |ACTCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCTTAC| 5096
Sbjct 5037 |ACCCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCTTAC| 5096
Query 5097 |CTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGAC| 5156
Sbjct 5097 |CTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGAC| 5156
Query 5157 |CAGATGTGGAAGTGTGTTGATCCGCCCTTAAACCCACCCCTCATTGGGCAACACCCCTGCTA| 5216
Sbjct 5157 |CAGATGTGGAAGTGTGTTGATCCGCCCTTAAACCCACCCCTCATTGGGCAACACCCCTGCTA| 5216
Query 5217 |TACAGACTGGGCGCTGTTTTCAGAAATGAAGTACCCTGACGCACCCAATCACCAAATACATC| 5276
Sbjct 5217 |TACAGACTGGGCGCTGTTTTCAGAAATGAAGTACCCTGACGCACCCAATCACCAAATACATC| 5276
Query 5277 |ATGACATGCAATGTCGCGCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGC| 5336
Sbjct 5277 |ATGACATGCAATGTCGCGCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGC| 5336
Query 5337 |GTCTTGGTGTCTCTGGCCGCGTATTGCTGTGCAACAGGCTGCGTGGTTCATAGTGGGCAGG| 5396
Sbjct 5337 |GTCTTGGTGTCTCTGGCCGCGTATTGCTGTGCAACAGGCTGCGTGGTTCATAGTGGGCAGG| 5396
Query 5397 |ATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTT| 5456
Sbjct 5397 |ATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTT| 5456
Query 5457 |GATGAGATGGAAGAGTGTCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCT| 5516
Sbjct 5457 |GATGAGATGGAAGAGTGTCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCT| 5516
Query 5517 |GAGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGACAGCCGCTCCCGCATGACAGAGTT| 5576
Sbjct 5517 |GAGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGACAGCCGCTCCCGCATGACAGAGTT| 5576
Query 5577 |ATCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCAAGCACATG| 5636
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Sbjct	5577	ATACACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGCTCTTCTGGCGGAAGCATG	5636
Query	5637	TGGAATTTTCATCAGTGGGATACAATATTGGCGGGCTGTCAACGCTGCCTGGTAACCC	5696
Sbjct	5637	TGGAATTTTCATCAGTGGGATACAATATTGGCGGGCTGTCAACGCTGCCTGGTAACCC	5696
Query	5697	GCCATTGCTTCATTGATGGCTTTTACAGCTGCGCTACCAGCCCACTAACCCTGGCCAA	5756
Sbjct	5697	GCCATTGCTTCATTGATGGCTTTTACAGCTGCGCTACCAGCCCACTAACCCTGGCCAA	5756
Query	5757	ACCTCTCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCC	5816
Sbjct	5757	ACCTCTCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCC	5816
Query	5817	GCTACTGCCTTTTGGGTGCTGGCTAGCTGGCGCCGCCATCGCAGCGTTGGACTGGGG	5876
Sbjct	5817	GCTACTGCCTTTTGGGTGCTGGCTAGCTGGCGCCGCCATCGCAGCGTTGGACTGGGG	5876
Query	5877	AAGGTCTCGTGGACATTCTTCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTGTAGCA	5936
Sbjct	5877	AAGGTCTCGTGGACATTCTTCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTGTAGCA	5936
Query	5937	TTCAAGATCATGAGCGGTGAGTCCCTTCACGAGGAGACCTGTGTCATCTGCTGCCCGCC	5996
Sbjct	5937	TTCAAGATCATGAGCGGTGAGTCCCTTCACGAGGAGACCTGTGTCATCTGCTGCCCGCC	5996
Query	5997	ATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAC	6056
Sbjct	5997	ATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAC	6056
Query	6057	GTTGGCCCCGGCGAGGGGGCAGTGCATGGATGAACCGGCTAATAGCCTTCGCCTCCCGG	6116
Sbjct	6057	GTTGGCCCCGGCGAGGGGGCAGTGCATGGATGAACCGGCTAATAGCCTTCGCCTCCCGG	6116
Query	6117	GGGAACCATGTTTCCCCCAGCACTACGTGCGGAGAGCGATGACGCGCCCGCGCTCACT	6176
Sbjct	6117	GGGAACCATGTTTCCCCCAGCACTACGTGCGGAGAGCGATGACGCGCCCGCGCTCACT	6176
Query	6177	GCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGATAAAGC	6236
Sbjct	6177	GCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGATAAAGC	6236
Query	6237	TCGGAGTGTAACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATAATG	6296
Sbjct	6237	TCGGAGTGTAACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATAATG	6296
Query	6297	GAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGG	6356
Sbjct	6297	GAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGG	6356
Query	6357	ATTCCCTTTGTGCTCTGCCAGCGGGGTATAGGGGGGCTGGCGAGGAGACGGCATTATG	6416
Sbjct	6357	ATTCCCTTTGTGCTCTGCCAGCGGGGTATAGGGGGGCTGGCGAGGAGACGGCATTATG	6416
Query	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGAACATGTCAAAACGGGACGATGAGG	6476
Sbjct	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGAACATGTCAAAACGGGACGATGAGG	6476
Query	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAAACGCCTAC	6536
Sbjct	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAAACGCCTAC	6536
Query	6537	ACCACGGGCCCCGTACTCCCTTCCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537	ACCACGGGCCCCGTACTCCCTTCCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGGTG	6596
Query	6597	TCTGCAGAGGAATACGTGGAGATAAGCGGGTGGGGACTTCCACTAGTATCCGGTATG	6656
Sbjct	6597	TCTGCAGAGGAATACGTGGAGATAAGCGGGTGGGGACTTCCACTAGTATCCGGTATG	6656
Query	6657	ACTACTGACAATCTTAAATGCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTG	6716
Sbjct	6657	ACTACTGACAATCTTAAATGCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTG	6716
Query	6717	GACGGGGTGCGCCTACACAGGTTTGGCGCCCTTGAAGCCCTTGCTGCGGGAGGAGGTA	6776

Sbjct	6717	GACGGGGTGCCTACATAGSTTTGCGCCCTTGAACGCCCTTGCTGCGGGAGGAGGTA	6776
Query	6777	TCATTACAGTAGGACTCCACGAGTACCCGGTGGGGTCGAATTACCTTGCAGCCCGAA	6836
Sbjct	6777	TCATTACAGTAGGACTCCACGAGTACCCGGTGGGGTCGAATTACCTTGCAGCCCGAA	6836
Query	6837	CCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGC	6896
Sbjct	6837	CCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGC	6896
Query	6897	GCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGCTAGCCAG	6956
Sbjct	6897	GCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGCCAGCCAG	6956
Query	6957	CTGTCCGCTCCATCTCTCAAGGCAACTTGCACGCCAACCATGACTCCCTTGACGCCGAG	7016
Sbjct	6957	CTGTCCGCTCCATCTCTCAAGGCAACTTGCACGCCAACCATGACTCCCTTGACGCCGAG	7016
Query	7017	CTCATAGAGGCTAACCTCTCTGTGGAGGCAGGAGATGGCGCGCAACATCACCAGGGTTGAG	7076
Sbjct	7017	CTCATAGAGGCTAACCTCTCTGTGGAGGCAGGAGATGGCGCGCAACATCACCAGGGTTGAG	7076
Query	7077	TCAGAGAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAG	7136
Sbjct	7077	TCAGAGAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAG	7136
Query	7137	CGGGAGGTCTCCGTACTTCGAGAAATTCTGCGGAAGTCTCGGAGATTTCGCCGGGCCCTG	7196
Sbjct	7137	CGGGAGGTCTCCGTACTCCGCAGAAATTCTGCGGAAGTCTCGGAGATTTCGCCGGGCCCTG	7196
Query	7197	CCCGTCTGGGCGCGGCCGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGAC	7256
Sbjct	7197	CCCGTCTGGGCGCGGCCGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGAC	7256
Query	7257	TACGAACCACTGGTGCTACATGGCTGCCCGCTACCACTCCACGGTCCCTCTGTGGCT	7316
Sbjct	7257	TACGAACCACTGGTGCTATGGCTGCCCGCTACCACTCCACGGTCCCTCTGTGGCT	7316
Query	7317	CCGCCCTCGGAAAAGCGTAGCTGGTGCTTACCGAATCAACCTTACTACTGCTTGGCC	7376
Sbjct	7317	CCGCCCTCGGAAAAGCGTAGCTGGTGCTTACCGAATCAACCTTACTACTGCTTGGCC	7376
Query	7377	GAGCTTGGCACCAAAAGTTTTTGGCAGCTCTCAACTTCGGGCATTACGGGCGCAATACG	7436
Sbjct	7377	GAGCTTGGCACCAAAAGTTTTTGGCAGCTCTCAACTTCGGGCATTACGGGCGCAATATG	7436
Query	7437	ACAACATCTCTTGAGCCCGCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCTAT	7496
Sbjct	7437	ACAACATCTCTTGAGCCCGCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCTAT	7496
Query	7497	TCTTCCATGCCCCCGTGGAGGGGAGCCTGGGGATCCGGATCTACGCACGGGTCATGG	7556
Sbjct	7497	TCTTCCATGCCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTACGCACGGGTCATGG	7556
Query	7557	TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATCC	7616
Sbjct	7557	TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATACC	7616
Query	7617	TGGACAGGCGCACTCGTCAACCCGTGCGCTGCGGAAGAACAAAACTTGCCCATCAAGCA	7676
Sbjct	7617	TGGACAGGCGCACTCGTCAACCCGTGCGCTGCGGAAGAACAAAACTTGCCCATCAAGCA	7676
Query	7677	CTGAGCAACTCGTTGCTACGCCATCACAACTTGGTGATTTCCACCACCTTACGCAGTGCT	7736
Sbjct	7677	CTGAGCAACTCGTTGCTACGCCATCACAACTTGGTGATTTCCACCACCTTACGCAGTGCT	7736
Query	7737	TGCCAAAGGCAGAGAAGATCACAATTGACAGACTGCAAGTTCTGGACAGCATTACCAG	7796
Sbjct	7737	TGCCAAAGGCAGAGAAGATCACAATTGACAGACTGCAAGTTCTGGACAGCATTACCAG	7796
Query	7797	GACGTGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTA	7856
Sbjct	7797	GACGTGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTA	7856
Query	7857	GAGGAGCTTTCGAGCCTGACGCCCCCATTTCAGCCAAATCCAAGTTGGCTATGGGGCA	7916

Sbjct	7857	 GAGGAAGCTTGACGCTGACGCCCCACATTGACGCAAAATCCAAGTTTGGCTATGGGGCA	7916
Query	7917	 AAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTTGGGAAAGAC	7976
Sbjct	7917	 AAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTTGGGAAAGAC	7976
Query	7977	 CTTCTGGAAGACAGTGTAAACCAATAGACACTACCATCATGCCCAGAACGAGGTTTTC	8036
Sbjct	7977	 CTTCTGGAAGACAGTGTAAACCAATAGACACTATCATCATGCCCAGAACGAGGTTCTTC	8036
Query	8037	 TGC GTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTCCCCGACCTG	8096
Sbjct	8037	 TGC GTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTCCCCGACCTG	8096
Query	8097	 GGCGTGGCGGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCC	8156
Sbjct	8097	 GGCGTGGCGGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCCCTGGCC	8156
Query	8157	 GTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCCTCGTG	8216
Sbjct	8157	 GTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCCTCGTG	8216
Query	8217	 CAAGCGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGAC	8276
Sbjct	8217	 CAAGCGTGAAGTCCAAGAAGACCCCGATGGGGTTCCGATGATGATACCCGCTGTTTTGAC	8276
Query	8277	 TCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTG	8336
Sbjct	8277	 TCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTG	8336
Query	8337	 GACCCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCT	8396
Sbjct	8337	 GACCCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCT	8396
Query	8397	 CTTACCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCAGCGCGTACTG	8456
Sbjct	8397	 CTTACCAATTCAAGGGGGGAAAACCTGCGGCTATCGCAGGTGCCGCGCAGCGCGTACTG	8456
Query	8457	 ACAAC TAGCTGTGGTAACACCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCC	8516
Sbjct	8457	 ACAAC TAGCTGTGGTAACACCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCC	8516
Query	8517	 GCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAA	8576
Sbjct	8517	 GCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAA	8576
Query	8577	 AGTGGGGGGTTCAGGAGGACGCGCGAGCCTGAGAGCCTTACCGGAGGCTATGACCAGG	8636
Sbjct	8577	 AGTGGGGGGTTCAGGAGGACGCGCGAGCCTGAGAGCCTTACCGGAGGCTATGACCAGG	8636
Query	8637	 TACTCCGCGCGCGCGGGGACCGCCACAAC CAGAATACGACTTGGAGCTTATAACATCA	8696
Sbjct	8637	 TACTCCGCGCGCGCGGGGACCGCCACAAC CAGAATACGACTTGGAGCTTATAACATCA	8696
Query	8697	 TGCTCCTCCAACGTGTGAGTCGCCACGACGGCGCTGGAAAGAGGCTCTACTACCTTACC	8756
Sbjct	8697	 TGCTCCTCCAACGTGTGAGTCGCCACGACGGCGCTGGAAAGAGGCTCTACTACCTTACC	8756
Query	8757	 CGTGACCTTACAACCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTC	8816
Sbjct	8757	 CGTGACCTTACAACCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTC	8816
Query	8817	 AATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTG	8876
Sbjct	8817	 AATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTG	8876
Query	8877	 ATGACCCATTTCCTTAGCGTCTCATAGCCAGGATCAGCTTGAACAGGCTCTTAACGT	8936
Sbjct	8877	 ATGACCCATTTCCTTAGCGTCTCATAGCCAGGATCAGCTTGAACAGGCTCTTAACGT	8936
Query	8937	 GAGATCTACGGAGCCTGTACTCCATAGAACCACCTGGATCTACCTCCAATCATTCAAAGA	8996
Sbjct	8937	 GAGATCTACGGAGCCTGTACTCCATAGAACCACCTGGATCTACCTCCAATCATTCAAAGA	8996
Query	8997	 CTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTG	9056

[illegible]

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>dbj|DD070077.1| PROCESS FOR THE REPLICATION OF THE HEPATITIS C VIRUS
Length=9622
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Score = 1.713e+04 bits (9277), Expect = 0.0
Identities = 9515/9626 (98%), Gaps = 31/9626 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCTGATGGGGGCGACATCCACCATGA-ATCACTCCCTGTGAGGAAC TACT	59
Sbjct	1	GCCAGCCCTGATGGGGGCGACATCCACCAT-AGATCACTCCCTGTGAGGAAC TACT	59
Query	60	GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCGACGCCTCCAGGA	119
Sbjct	60	GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCGACGCCTCCAGGA	119
Query	120	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA	179
Sbjct	120	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA	179
Query	180	GGACGACCGGGTCTTCTTGGATAAACCCTCAATGCGTGGAGATTGGCGGTGCCCC	239
Sbjct	180	GGACGACCGGGTCTTCTTGGATAAACCCTCAATGCGTGGAGATTGGCGGTGCCCC	239
Query	240	CGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAGGCCTTGTGGTACTGCTGATAG	299
Sbjct	240	CGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAGGCCTTGTGGTACTGCTGATAG	299
Query	300	GGTGCTTGCGAGTGCCCGGGAGGTCTCTGTAGACCTGCACCATGACGACGAATCCTAAA	359
Sbjct	300	GGTGCTTGCGAGTGCCCGGGAGGTCTCTGTAGACCTGCACCATGACGACGAATCCTAAA	359
Query	360	CCTCAAAGAAAACCAAACGTAAACCAACCGTCGCCACAGGAGCTCAAGTTCCCGGGT	419

Sbjct	360	CCTCAAAGAAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCGAGTTC	419
Query	420	GGCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCGCAGGGGCC	479
Sbjct	420	GGCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCGCAGGGGCC	479
Query	480	CGCGCGACGAGGAAGACTTCGAGCGGTGCGAACCTCGAGGTAGACGT	539
Sbjct	480	CGCGCGACGAGGAAGACTTCGAGCGGTGCGAACCTCGGTAGACGT	539
Query	540	AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTAC	599
Sbjct	540	AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTAC	599
Query	600	GGCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCT	659
Sbjct	600	GGCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCT	659
Query	660	TGGGGCCCAACAGACCCCCGGCGTAGTTCGCGCAATTGGGTAAGGT	719
Sbjct	660	TGGGGCCCAACAGACCCCCGGCGTAGTTCGCGCAATTGGGTAAGGT	719
Query	720	ACGTGCGGCTTCGCCGACCTCATAGGGTACATACCGCTCGTCGGCG	779
Sbjct	720	ACGTGCGGCTTCGCCGACCTCATAGGGTACATACCGCTCGTCGGCG	779
Query	780	GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCG	839
Sbjct	780	GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCG	839
Query	840	GGGAACCTTCTCGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCT	899
Sbjct	840	GGGAACCTTCTCGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCT	899
Query	900	GTGCCCGCTTCAGCTGACCAAGTGGCGAATTCCTGGGGCTTACCAT	959
Sbjct	900	GTGCCCGCTTCAGCTGACCAAGTGGCGAATTCCTGGGGCTTACCAT	959
Query	960	TGCCCTAATCGAGTATTGTGTACGAGCGCGCGATGCCATCTGCACT	1019
Sbjct	960	TGCCCTAATCGAGTATTGTGTACGAGCGCGCGATGCCATCTGCACT	1019
Query	1020	GTCCCTTGCCTTCGCGAGGGTAACGCCCTCGAGGTGTTGGGTGGCGG	1079
Sbjct	1020	GTCCCTTGCCTTCGCGAGGGTAACGCCCTCGAGGTGTTGGGTGGCGG	1079
Query	1080	GCCACACGAGGACGCGAACTCCCCACAACGACGTTTCGACGTATAT	1139
Sbjct	1080	GCCACACGAGGACGCGAACTCCCCACAACGACGTTTCGACGTATAT	1139
Query	1140	GGGAGCGCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGG	1199
Sbjct	1140	GGGAGCGCACCCCTCTGCTCAGCCCTCTACGTGGGGGACCTGTGCGG	1199
Query	1200	GTTGGTCAACTGTTTACCTTCTCTCCACGGCGCCACTGGACGACGAA	1258
Sbjct	1200	GTTGGTCAACTGTTTACCTTCTCTCCACGGCGCCACTGGACGACGAA	1258
Query	1259	TTCTATCTATCCCGGCATATAACGGGTTCATCGCATGGCATGGGAT	1318
Sbjct	1259	TTCTATCTATCCCGGCATATAACGGGTTCATCGCATGGCATGGGAT	1318
Query	1319	GTCCCCACGGCAGCGTGTGGTGGTAGCTCAGCTGCTCCGGATCCCA	1378
Sbjct	1319	GTCCCCACGGCAGCGTGTGGTGGTAGCTCAGCTGCTCCGGATCCCA	1378
Query	1379	CATGATCGCTGGTGCTCACTGGGGAGTCTCGCGGGGCATAGCGTAT	1438
Sbjct	1379	CATGATCGCTGGTGCTCACTGGGGAGTCTCGCGGGGCATAGCGTAT	1438
Query	1439	GAATCGGGCGAAGTCTCGTATGATGCTGCTGCTATTGCCGGCGTC	1498
Sbjct	1439	GAATCGGGCGAAGTCTCGTATGATGCTGCTGCTATTGCCGGCGTC	1498
Query	1499	CGTACCCGGGGGAAATGCCGGCGCACCACGGTGGGGTGTGGTCTCT	1558

Sbjct	1499	CGTCAACCGGGGGAAGTGC CGCGGCACACCAACGGCTGGGCTTGTGGTCTCCTTACACCAAG	1558
Query	1559	CGCCAAAGCAGAAACATCCAAC TGATCAACACCAACCGCAGTTGGCACAATCAATAGCAGCGG	1618
Sbjct	1559	CGCCAAAGCAGAAACATCCAAC TGATCAACACCAACCGCAGTTGGCACAATCAATAGCAGCGG	1618
Query	1619	CTTGAATTGCAATGAAAGCCTTAAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAA	1678
Sbjct	1619	CTTGAAGCTGCAACGATAGCCTTACACCGGCTGGTTAGCAGGGCTCTTCTATCGCCACAA	1678
Query	1679	ATTCAACTCTTCAGGCTGTCTGTAGAGGTTGGCCAGCTGCCGACGCCCTTACCGATTTTGC	1738
Sbjct	1679	ATTCAACTCTTCAGGCTGTCTGTAGAGGTTGGCCAGCTGCCGACGCCCTTACCGATTTTGC	1738
Query	1739	CCAGGGGCTGGGTCCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTTACTG	1798
Sbjct	1739	CCAGGGGCTGGGTCCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTTACTG	1798
Query	1799	CTGGCACTACCTCCAAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGT	1858
Sbjct	1799	TGGCACTACCTCCAAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGT	1858
Query	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTGGGGCGGCCTAC	1918
Sbjct	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTGGGGCGGCCTAC	1918
Query	1919	CTACAGCTGGGTCGAAATGATACGGATGCTCTTCGTCCTTAAACACACGAGCCACCGCT	1978
Sbjct	1919	CTACAGCTGGGTCGAAATGATACGGATGCTCTTCGTCCTTAAACACACGAGCCACCGCT	1978
Query	1979	GGGCAATTGGTTCCGTTGTACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGC	2038
Sbjct	1979	GGGCAATTGGTTCCGTTGTACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGC	2038
Query	2039	GCCCCCTGTGTGTCATCGGAGGGGTGGGCAACAACCTTGCTGTGCCCCACTGATTGCTT	2098
Sbjct	2039	GCCCCCTGTGTGTCATCGGAGGGGTGGGCAACAACCTTGCTGTGCCCCACTGATTGCTT	2098
Query	2099	CCGCAAAATATCGGAAGGCACATACTCTCCGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Sbjct	2099	CCGCAAAATATCGGAAGGCACATACTCTCCGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Query	2159	GTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT	2218
Sbjct	2159	GTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACTATCAATTACACCAT	2218
Query	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGTGCAGCACAGGCTGGAAGCGGCTGCAACTG	2278
Sbjct	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGTGCAGCACAGGCTGGAAGCGGCTGCAACTG	2278
Query	2279	GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGACAGGTCGAGCTCAGCCGTTGCT	2338
Sbjct	2279	GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGACAGGTCGAGCTCAGCCATTGCT	2338
Query	2339	GCTGTCCACACACAGTGGCAGGTCCTTCGGTGTCTTTACAGACCTGCGAGCCTTGTCT	2398
Sbjct	2339	GCTGTCCACACACAGTGGCAGGTCCTTCGGTGTCTTTACAGACCTGCGAGCCTTGTCT	2398
Query	2399	CACCGGCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGG	2458
Sbjct	2399	CACCGGCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGG	2458
Query	2459	GTCAGCATCGCGTCTCGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCCTTCTGCT	2518
Sbjct	2459	GTCAGCATCGCGTCTCGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCCTTCTGCT	2518
Query	2519	TGCAGACGCGCGGCTGTGCTCTCTTGTGGATGATGTTACTATATCCAAAGCGGAGGC	2578
Sbjct	2519	TGCAGACGCGCGGCTGTGCTCTCTTGTGGATGATGTTACTATATCCAAAGCGGAGGC	2578
Query	2579	GGCTTTGGAGAACCTCGTAATACTCAATGAGCATCCCTGGCCGGGACGACCGGCTTTGT	2638
Sbjct	2579	GGCTTTGGAGAACCTCGTAATACTCAATGAGCATCCCTGGCCGGGACGACCGGCTTTGT	2638
Query	2639	GTCCTTCTCGTGTCTTCTGTGCTTTGCGTGGTATCTGAAGGTAAGTGGGTGCCCGGAGC	2698

Sbjct	2639		GTCCCTTCCTCGTGTTCTTCTGCTTTGCGTGGTAATCAAGGGTAGGTGGGTGCCCGGAGC	2698
Query	2699		GGTCTACGCCCTTCTACGGGATGTGGCCTCTCTCTGCTCTCTGCTGGCGTTGCCTCAGCG	2758
Sbjct	2699		GGTCTACGCCCTTCTACGGGATGTGGCCTCTCTCTGCTCTCTGCTGGCGTTGCCTCAGCG	2758
Query	2759		GGCATAACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGCGCTGTGTTCTGTCTGGGTT	2818
Sbjct	2759		GGCATAACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGCGCTGTGTTCTGTCTGGGTT	2818
Query	2819		AATGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Sbjct	2819		AATGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Query	2879		TCAGTATTTTCTGACACAGATAGAAGCGCAACTGCACGTGTGGGTTTGGGTTTCAACGT	2938
Sbjct	2879		TCAGTATTTTCTGACACAGATAGAAGCGCAACTGCACGTGTGGGTTTGGGTTTCAACGT	2938
Query	2939		CCgggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCCTGGTATT	2998
Sbjct	2939		CCGGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTGTACACCCGACTCTGTGATT	2998
Query	2999		TGACATACCAAACCTACTCTCGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Sbjct	2999		TGACATACCAAACCTACTCTCGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Query	3059		GCTTAAAGTCCCTACTTCTGTCGCGGTTCAAGGCCTTCTCCGGATCTGCGCGTAGCGCG	3118
Sbjct	3059		GTTTAAAGTCCCTACTTCTGTCGCGGTTCAAGGCCTTCTCCGGATCTGCGCGTAGCGCG	3118
Query	3119		GAAGAT-AGCCGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTG	3177
Sbjct	3119		GAAGATGA-CCGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTG	3177
Query	3178		GCACCTATGTGTATTAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAG	3237
Sbjct	3178		GCACCTATGTGTATTAACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAG	3237
Query	3238		ATCTGGCCGTGGCTGTGGAACCAAGTCTCTTCTCCCGAATGGAGACCAAGCTCATACGT	3297
Sbjct	3238		ATCTGGCCGTGGCTGTGGAACCAAGTCTCTTCTCCCGAATGGAGACCAAGCTCATACGT	3297
Query	3298		GGGGGGCAGATACCGCCGCGTGGGTGACATCATCAACGGCTTGGCCGTCTCTGCCCCGTA	3357
Sbjct	3298		GGGGGGCAGATACCGCCGCGTGGGTGACATCATCAACGGCTTGGCCGTCTCTGCCCCGTA	3357
Query	3358		GGGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGAGGTTGC	3417
Sbjct	3358		GGGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGAGGTTGC	3417
Query	3418		TGCGGCCCATACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCA	3477
Sbjct	3418		TGCGGCCCATACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCA	3477
Query	3478		GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTA	3537
Sbjct	3478		GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTA	3537
Query	3538		CCCAAACCTTCTTGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCG	3597
Sbjct	3538		CCCAAACCTTCTTGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCG	3597
Query	3598		GAACGAGGACCATCGCATCACCACAGGGTCTGTGATCAGATGTATACCAATGTGGACC	3657
Sbjct	3598		GAACGAGGACCATCGCATCACCACAGGGTCTGTGATCAGATGTATACCAATGTGGACC	3657
Query	3658		AAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCCTGTACCTGG	3717
Sbjct	3658		AAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCCTGTACCTGG	3717
Query	3718		GCTCTCGGACCTTTACCTGGTACGAGGACGCGCGATGTCAATCCCGTGGCGCGCGAG	3777
Sbjct	3718		GCTCTCGGACCTTTACCTGGTACGAGGACGCGCGATGTCAATCCCGTGGCGCGCGAG	3777
Query	3778		GTGATAGCAGGGTAGCCTGCTTTCCGCCCGGCCAATTCTACTTGAAGGCTCCTCGG	3837

Sbjct	3778	GTGATAGCAGGGGTAGCCTGCTTTTGCCCGGCCCAATTCTACCTAAAGGCTCCTCGG	3837
Query	3838	GGGGTCCCGTGTGTGTCGCCCGCGGGACACGCGTGGGCCATTATCAGGGCCCGGGTGTGCA	3897
Sbjct	3838	GGGGTCCCGTGTGTGTCGCCCGCGGGACACGCGTGGGCCATTATCAGGGCCCGGGTGTGCA	3897
Query	3898	CCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGA	3957
Sbjct	3898	CCCGTGGAGTGGCCAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGA	3957
Query	3958	GATCCCCGGTGTTCACGGACAACCTCTCCACCAGCAGTGCCTCCAGGCTTCACAGGTGG	4017
Sbjct	3958	GATCCCCGGTGTTCACGGACAACCTCTCCACCAGCAGTGCCTCCAGGCTTCACAGGTGG	4017
Query	4018	CCCACCTGCATGCTGCCACCGGACGCGTAAGAGCACCAGGCTCCGCTCGTACGCAG	4077
Sbjct	4018	CCCACCTGCATGCTGCCACCGGACGCGTAAGAGCACCAGGCTCCGCTCGTACGCAG	4077
Query	4078	CCCAGGGCTACAAGGTGTGTGTGCTCAACCCCTCTGTGTGTCACAGCTGGGCTTTGGTG	4137
Sbjct	4078	CCCAGGGCTACAAGGTGTGTGTGCTCAACCCCTCTGTGTGTCACAGCTGGGCTTTGGTG	4137
Query	4138	CTTACATGTCCAAGGCCATGCGGTGTATCCTAATATCAGGACCGGGGTGAGAACAAATTA	4197
Sbjct	4138	CTTACATGTCCAAGGCCATGCGGTGTATCCTAATATCAGGACCGGGGTGAGAACAAATTA	4197
Query	4198	CCACTGGCAGCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGTCT	4257
Sbjct	4198	CCACTGGCAGCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGTCT	4257
Query	4258	CAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCA	4317
Sbjct	4258	CAGGAGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCA	4317
Query	4318	TCTTGGGCGATCGGCATGTCTTGACCAAGCAGAGACTTGGCGGGGCGAGACTGGTGTGTGC	4377
Sbjct	4318	TCTTGGGCGATCGGCATGTCTTGACCAAGCAGAGACTTGGCGGGGCGAGACTGGTGTGTGC	4377
Query	4378	TCGCCACTGTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGGTGTG	4437
Sbjct	4378	TCGCCACTGTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGGTGTG	4437
Query	4438	CTCTGTCCACCACCGGAGAGATCCCTTTT-TACGGCAAGGCTATCCCTCTGAGGTGATC	4496
Sbjct	4438	CTCTGTCCACCACCGGAGAGATCCCTTTTCTACGGCAAGGCTATCCCTCTGAGGTGATC	4496
Query	4497	AAGGGGGGAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGGCAGAGCTCGCCGG	4556
Sbjct	4497	AAGGGGGGAGACATCTCATCTTCTGTCACTCAAAGAAGAGTGGCAGAGCTCGCCGG	4556
Query	4557	AAGCTGGTGCATTTGGGCATCAATGCCGTGGCTACTACCGCGGTCTTGACGTGTCTGTCT	4616
Sbjct	4557	AAGCTGGTGCATTTGGGCATCAATGCCGTGGCTACTACCGCGGACTTGACGTGTCTGTCT	4616
Query	4617	ATCCCCGACCAGCGCGCATGTTGTGCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACC	4676
Sbjct	4617	ATCCCCGACCAGCGCGCATGTTGTGCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACC	4676
Query	4677	GGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCTACTCAGACAGTCGATTTCAGC	4736
Sbjct	4677	GGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCTACTCAGACAGTCGATTTCAGC	4736
Query	4737	CTTGACCCCTACCTTTTACCATTGAGACAACACGCTTCCCGCAGGATGCTGTCTCCAGGACT	4796
Sbjct	4737	CTTGACCCCTACCTTTTACCATTGAGACAACACGCTTCCCGCAGGATGCTGTCTCCAGGACT	4796
Query	4797	CAACGCCGGGGCAGGACTGGCAGGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGG	4856
Sbjct	4797	CAGCGCCGGGGCAGGACTGGCAGGGGGGAAGCCAGGCATCTACAGATTGTGGCACCGGGG	4856
Query	4857	GAGCGCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGTATGACGCGGGCTGT	4916
Sbjct	4857	GAGCGCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGTATGACGCGGGCTGT	4916
Query	4917	GCTTGGTATGAGCTACGCGCCCGGAGACTACAGTTAGGCTACGAGCTACATGAACACC	4976

Sbjct	4917	GCTTGTGATAGAGCTCATGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC	4976
Query	4977	CCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTGGGAGGGCGTCTTTACGGGGCTC	5036
Sbjct	4977	CCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTGGGAGGGCGTCTTTACGGGGCTC	5036
Query	5037	ACTCATATAGATGCCACTTTTATCCAGACAAAGCAGATGGGGAGAACITTCCTTAC	5096
Sbjct	5037	ACCCATATAGATGCCACTTTCTATCCAGACAAAGCAGATGGGGAGAACITTCCTTAC	5096
Query	5097	CTGGTAGCTACCAAGCCACCCTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGAC	5156
Sbjct	5097	CTGGTAGCTACCAAGCCACCCTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGAC	5156
Query	5157	CAGATGTGGAAGTGTTTGTATCGGCCTTAAACCCACCCTCCATGGGCCAACACCCTGCTA	5216
Sbjct	5157	CAGATGTGGAAGTGTTTGTATCGGCCTTAAACCCACCCTCCATGGGCCAACACCCTGCTA	5216
Query	5217	TACAGACTGGGCGCTGTTAGAAATGAAGTCACCTGACGCACCCCAATCACCAAATACATC	5276
Sbjct	5217	TACAGACTGGGCGCTGTTAGAAATGAAGTCACCTGACGCACCCCAATCACCAAATACATC	5276
Query	5277	ATGACATGATGTGCGGCCACCTGGAGTGTGTCACGAGCACTGGGTGCTGTTTGGCGGC	5336
Sbjct	5277	ATGACATGATGTGCGGCCACCTGGAGTGTGTCACGAGCACTGGGTGCTGTTTGGCGGC	5336
Query	5337	GTCTTGGCTGCTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGG	5396
Sbjct	5337	GTCTTGGCTGCTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGG	5396
Query	5397	ATCGTCTTGTCCGGGAAGCCGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTC	5456
Sbjct	5397	ATTGCTCTGTCCGGGAAGCCGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTC	5456
Query	5457	GATGAGATGGAAGATGCTCTCAGCACTTACCCTACATCAGCAAGGATGATGCTCGCT	5516
Sbjct	5457	GATGAGATGGAAGATGCTCTCAGCACTTACCCTACATCAGCAAGGATGATGCTCGCT	5516
Query	5517	GAGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCGCCATGCAGAGGTT	5576
Sbjct	5517	GAGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCGCCATGCAGAGGTT	5576
Query	5577	ATCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCITTTGGGCGAAGCACATG	5636
Sbjct	5577	ATCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCITTTGGGCGAAGCACATG	5636
Query	5637	TGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCC	5696
Sbjct	5637	TGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCC	5696
Query	5697	GCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCCTTGGCCAA	5756
Sbjct	5697	GCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCCTTGGCCAA	5756
Query	5757	ACCTCCTCTTCAACATAATTGGGGGGTGGGTGGTGGCCAGCTGCCGCCGCCCGGTGCC	5816
Sbjct	5757	ACCTCCTCTTCAACATAATTGGGGGGTGGGTGGTGGCCAGCTGCCGCCGCCCGGTGCC	5816
Query	5817	GCTACTGCCTTTGTGGGTGCTGGCGTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGG	5876
Sbjct	5817	GCTACTGCCTTTGTGGGTGCTGGCGTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGG	5876
Query	5877	AAGGTCCTCGTGGAATTTCTGACAGGATATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCA	5936
Sbjct	5877	AAGGTCCTCGTGGAATTTCTGACAGGATATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCA	5936
Query	5937	TTCAAGATCATGAGCGGTGAGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCC	5996
Sbjct	5937	TTCAAGATCATGAGCGGTGAGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCC	5996
Query	5997	ATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGGTCTGCGCAGCAATACTGCGCCGCAC	6056
Sbjct	5997	ATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGGTCTGCGCAGCAATACTGCGCCGCAC	6056
Query	6057	GTTGGCCCGGGCGAGGGGGCAGTGAATGATGAACCGGCTAATAGCCTTCGCTTCCCGG	6116

Sbjct	6057	GTGGCCCGGGCGAGGGGGCACTGCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCG	6116
Query	6117	GGGAACCATGTTTCCCCACGCACTACGTGCGCGGAGAGCGATGCAGCCGCCCGGTCACT	6176
Sbjct	6117	GGGAACCATGTTTCCCCACGCACTACGTGCGCGGAGAGCGATGCAGCCGCCCGGTCACT	6176
Query	6177	GCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCAGCTGCATCAGTGGATAAAGC	6236
Sbjct	6177	GCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCAGCTACATCAGTGGATAAAGC	6236
Query	6237	TCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATAATGC	6296
Sbjct	6237	TCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATAATGC	6296
Query	6297	GAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGG	6356
Sbjct	6297	GAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGG	6356
Query	6357	ATTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATG	6416
Sbjct	6357	ATTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATG	6416
Query	6417	CACACTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAACCGGGACGATGAGG	6476
Sbjct	6417	CACACTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAACCGGGACGATGAGG	6476
Query	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTAC	6536
Sbjct	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTAC	6536
Query	6537	ACCACGGGCCCCGTACTCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537	ACCACGGGCCCCGTACTCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTG	6596
Query	6597	TCTGCAGAGGAATACGTGGAGATAAGCGCGGTGGGGAGCTTCCACTAGTATCCGGTATG	6656
Sbjct	6597	TCTGCAGAGGAATACGTGGAGATAAGCGCGGTGGGGAGCTTCCACTAGTATCCGGTATG	6656
Query	6657	ACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGGAATTTTTCACAGAATTG	6716
Sbjct	6657	ACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGGAATTTTTCACAGAATTG	6716
Query	6717	GACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGAAGCCCTTGCTGCGGGAGGAGGTA	6776
Sbjct	6717	GACGGGGTGCGCCTACATAGTTTGCGCCCCCTTGAAGCCCTTGCTGCGGGAGGAGGTA	6776
Query	6777	TCATTAGAGTAGGACTCCACGAGTACC CGGTGGGGTCGCAATTACCTTGCGAGCCCGAA	6836
Sbjct	6777	TCATTAGAGTAGGACTCCACGAGTACC CGGTGGGGTCGCAATTACCTTGCGAGCCCGAA	6836
Query	6837	CCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCTCCCATATAACAGCAGAGGCG	6896
Sbjct	6837	CCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCTCCCATATAACAGCAGAGGCG	6896
Query	6897	GCGGGAGAAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAG	6956
Sbjct	6897	GCGGGAGAAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAG	6956
Query	6957	CTGTCCGCTCCATCTCTCAAGGCAACTTGACACGCCAACCATGACTCCCGTGACGCCGAG	7016
Sbjct	6957	CTGTCCGCTCCATCTCTCAAGGCAACTTGACACGCCAACCATGACTCCCGTGACGCCGAG	7016
Query	7017	CTCATAGAGGCTAACTCCTGTGAGAGGCAGGAGATGGGCGGCAACATACCAAGGGTTGAG	7076
Sbjct	7017	CTCATAGAGGCTAACTCCTGTGAGAGGCAGGAGATGGGCGGCAACATACCAAGGGTTGAG	7076
Query	7077	TCAGAGAAACAAGTGGTGATTCTGGACTCCTTCGATCCCGTTTGCGCAGAGAGGATGATG	7136
Sbjct	7077	TCAGAGAAACAAGTGGTGATTCTGGACTCCTTCGATCCCGTTTGCGCAGAGAGGATGATG	7136
Query	7137	CGGGAGGCTCCCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTGCCCCGGGCCCTG	7196
Sbjct	7137	CGGGAGGCTCCCGTACCCGCAAAATTCGCGGAAGTCTCGGAGATTGCCCCGGGCCCTG	7196
Query	7197	CCCGCTTGGGCGCGGCCGGAACACAAACCCCGCTAGTAGAGAGCTGGAAAAAGCCTGAC	7256

Sbjct	7197	CCCGTTTGGGCGCGGCCGACATCAACCCCCCGTAGTAGAGACGTGGAAAAAGCCGTGAC	7256
Query	7197	TACGAACCACTGTGGTTCATGGCTGCCCGCTACCACTCCACGGTCCCTCTGTGCCT	7316
Sbjct	7257	TACGAACCACTGTGGTTCATGGCTGCCCGCTACCACTCCACGGTCCCTCTGTGCCT	7316
Query	7317	CCGCCTCGGAAAAAGCGTACGTTGGTCTCTACCGAATCAACCCATCTACTGCCTTGGCC	7376
Sbjct	7317	CCGCCTCGGAAAAAGCGTACGTTGGTCTCTACCGAATCAACCCACTACTGCCTTGGCC	7376
Query	7377	GAGCTTGGCACCACAAAGTTTGGCAGCTCCTCAACTTCGGGCATTACGGGCGACAATACG	7436
Sbjct	7377	GAGCTTGGCACCACAAAGTTTGGCAGCTCCTCAACTTCGGGCATTACGGGCGACAATATG	7436
Query	7437	ACAACATCTCTAGAGCCGCCCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTAT	7496
Sbjct	7437	ACAACATCTCTAGAGCCGCCCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTAT	7496
Query	7497	TCTTCATGCCCCCTTGAAGGGGAGCTGGGGATCCGGATCTCAGCGACGGGTCAATGG	7556
Sbjct	7497	TCTTCATGCCCCCCCTTGAAGGGGAGCTGGGGATCCGGATTTCAGCGACGGGTCAATGG	7556
Query	7557	TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCCTATACC	7616
Sbjct	7557	TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCCTATACC	7616
Query	7617	TGGACAGGCGCACTCGTCAACCCCGTGCCTGCGGAAGAACAAAACTGCCATCAACGCA	7676
Sbjct	7617	TGGACAGGCGCACTCGTCAACCCCGTGCCTGCGGAAGAACAAAACTGCCATCAACGCA	7676
Query	7677	CTGAGCAACTCGTTGTCTAGCCATCACAATCTGGTGATTCCACCACCTTACGCGAGTGCT	7736
Sbjct	7677	CTGAGCAACTCGTTGTCTAGCCATCACAATCTGGTGATTCCACCACCTTACGCGAGTGCT	7736
Query	7737	TGCCAAGGACGAGAAGATGCATTGTAGACAGTGCAGTTTCTGGACAGCCATTACGAC	7796
Sbjct	7737	TGCCAAGGACGAGAAGATGCATTGTAGACAGTGCAGTTTCTGGACAGCCATTACGAC	7796
Query	7797	GAGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTA	7856
Sbjct	7797	GAGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTA	7856
Query	7857	GAGGAAGCTTGACGCTTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCA	7916
Sbjct	7857	GAGGAAGCTTGACGCTTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCA	7916
Query	7917	AAAGAGCTCCGTGTCATGCCAGAAAGCCGCTAGCCCCACATCAACTCCGTGTGGAAAGAC	7976
Sbjct	7917	AAAGAGCTCCGTGTCATGCCAGAAAGCCGCTAGCCCCACATCAACTCCGTGTGGAAAGAC	7976
Query	7977	CTTCTGGAAGACAGTGTAAACCAATAGACACTACCATCATGCCAAGAACGAGGTTTTC	8036
Sbjct	7977	CTTCTGGAAGACAGTGTAAACCAATAGACACTATCATCATGSCCAAGAACGAGGCTTTC	8036
Query	8037	TGCGTTTACGCTGAGAAGGGGGGTGTAAGCAGCTCGTCTCATCTGTTTCCCGACCTG	8096
Sbjct	8037	TGCGTTTACGCTGAGAAGGGGGGTGTAAGCAGCTCGTCTCATCTGTTTCCCGACCTG	8096
Query	8097	GGCGTGGCGGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGTCCCCCTGGCC	8156
Sbjct	8097	GGCGTGGCGGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCCCTGGCC	8156
Query	8157	GTGATGGGAAGCTCCTACGGATTCCAATACTACACAGGACAGCGGGTGAATTCTCTGCTG	8216
Sbjct	8157	GTGATGGGAAGCTCCTACGGATTCCAATACTACACAGGACAGCGGGTGAATTCTCTGCTG	8216
Query	8217	CAAGCGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCCGCTGTTTTGAC	8276
Sbjct	8217	CAAGCGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCCGCTGTTTTGAC	8276
Query	8277	TCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTG	8336
Sbjct	8277	TCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTG	8336
Query	8337	GACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCAGTGAAGGCTTTATGTTGGGGGCCCT	8396

[illegible]

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Sbjct  9477  TTTTTCCTTTTCTCTCTTTTTCCTTCTCTCTCCCTCTTCTTAATGGTGGCTCCATC 9536
Query   9514  TTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCTGAGCCGCATGACTGCAGAGAGTGCT 9573
Sbjct  9537  TTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCTGAGCCGCATGACTGCAGAGAGTGCT 9596
Query   9574  GATACTGGCCCTCTCTGCAGATCATGT 9599
Sbjct  9597  GATACTGGCCCTCTCTGCAGATCATGT 9622

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>emb|AX663428.1| Sequence 2 from Patent W002088338
Length=9622

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Score = 1.713e+04 bits (9277), Expect = 0.0
Identities = 9515/9626 (98%), Gaps = 31/9626 (0%)
Strand=Plus/Plus

Query 1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAACACT 59
Sbjct 1      GCCAGCCCCCTGATGGGGGCGACACTCCACCAT-AGATCACTCCCCTGTGAGGAACACT 59
Query 60     GTCTTCACGCAGAAAACGCTCTAGCCATGGCGTTAGTATGAGTGTGTCGTCAGCCCTCCAGGA 119
Sbjct 60     GTCTTCACGCAGAAAACGCTCTAGCCATGGCGTTAGTATGAGTGTGTCGTCAGCCCTCCAGGA 119
Query 120    ccccccTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA 179
Sbjct 120    CCCCCCTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA 179
Query 180    GGACGACCGGGTCTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC 239
Sbjct 180    GGACGACCGGGTCTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC 239
Query 240    CGCAAGACTTGTAGCCGAGTAGTGTGGGTGCGGAAGGCCCTGTGGTACTGCCTGATAG 299
Sbjct 240    CGCAAGACTTGTAGCCGAGTAGTGTGGGTGCGGAAGGCCCTGTGGTACTGCCTGATAG 299
Query 300    GGTGCTTGCAGTGTCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA 359
Sbjct 300    GGTGCTTGCAGTGTCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA 359
Query 360    CCTCAAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGT 419
Sbjct 360    CCTCAAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGT 419
Query 420    GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTG 479
Sbjct 420    GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTG 479
Query 480    CGCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTGAGCCTATCCCC 539
Sbjct 480    CGCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGTGGTAGACGTGAGCCTATCCCC 539
Query 540    AAGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCCTTGCGCCCTCTAT 599
Sbjct 540    AAGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCCTTGCGCCCTCTAT 599
Query 600    GGCATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCCTCCCGTGGCTCTCGGCTAGC 659
Sbjct 600    GGCATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCCTCCCGTGGCTCTCGGCTAGC 659
Query 660    TGGGGCCCCACAGACCCCGCGTAGGTGCGCAATTGGGTAAAGGTATCGATACCCCT 719
Sbjct 660    TGGGGCCCCACAGACCCCGCGTAGGTGCGCAATTGGGTAAAGGTATCGATACCCCT 719
Query 720    ACGTGCGGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCTCTTGAGGC 779
Sbjct 720    ACGTGCGGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCTCTTGAGGC 779
Query 780    GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAATATGAACA 839
Sbjct 780    GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAATATGAACA 839
Query 840    GGGAACTTCTCGTGTGCTTCTCTATCTCTCTCTGCGCCTGCTCTCTTGCTGACT 899

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Sbjct 840 |GGGAACCTTCTCTGGTTGCTCTTTCTCTATCTTCTCTTCTGCGCCCTGCTCTCTTGCCCTGACT| 899
Query 900 |GTGCCCGCTTACGCCCTACCAAGTGCACCAATTCTCGGGGGTTCACCATGTGACCAATGAT| 959
Sbjct 900 |GTGCCCGCTTACGCCCTACCAAGTGCACCAATTCTCGGGGGTTCACCATGTGACCAATGAT| 959
Query 960 |TGCCCTAACTCGAGTATTGTGTACGAGGCGGGCCGATGCCATCTGCACACTCCGGGGGTGT| 1019
Sbjct 960 |TGCCCTAACTCGAGTATTGTGTACGAGGCGGGCCGATGCCATCTGCACACTCCGGGGGTGT| 1019
Query 1020 |GTCCCTTGCGTTTCGCGAGGGTAAACGCCCTCGAGGTGTTGGGTGCGCGTGACCCCCACGGTG| 1079
Sbjct 1020 |GTCCCTTGCGTTTCGCGAGGGTAAACGCCCTCGAGGTGTTGGGTGCGCGTGACCCCCACGGTG| 1079
Query 1080 |GCCACAGGAGCGGCAAACTCCCAACAACGACGCTTCGAGCTATATCGACTGCTGTTGTC| 1139
Sbjct 1080 |GCCACAGGAGCGGCAAACTCCCAACAACGACGCTTCGAGCTATATCGACTGCTGTTGTC| 1139
Query 1140 |GGGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTT| 1199
Sbjct 1140 |GGGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTTCTTT| 1199
Query 1200 |GTTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAA-GACTGCAATTG| 1258
Sbjct 1200 |GTTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAAG-CTGCAATTG| 1258
Query 1259 |TTCTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAAGT| 1318
Sbjct 1259 |TTCTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAAGT| 1318
Query 1319 |GTCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAACAGCCATCATGGA| 1378
Sbjct 1319 |GTCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAACAGCCATCATGGA| 1378
Query 1379 |CATGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGG| 1438
Sbjct 1379 |CATGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGG| 1438
Query 1439 |GAACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTGCGCGGCTCGACGCGGAAACCCA| 1498
Sbjct 1439 |GAACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTGCGCGGCTCGACGCGGAAACCCA| 1498
Query 1499 |CGTCACCGGGGGAATGCCGGCCGACCCACGGCTGGGCTTGTGGTCTCCTTACACCAGG| 1558
Sbjct 1499 |CGTCACCGGGGGAATGCCGGCCACACCCACGGCTGGGCTTGTGGTCTCCTTACACCAGG| 1558
Query 1559 |CGCCAAGCAGAAATCACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGC| 1618
Sbjct 1559 |CGCCAAGCAGAAATCACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGC| 1618
Query 1619 |CTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAA| 1678
Sbjct 1619 |CTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCGCCACAA| 1678
Query 1679 |ATTCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCACGCGCTTACCGATTTTGC| 1738
Sbjct 1679 |ATTCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCACGCGCTTACCGATTTTGC| 1738
Query 1739 |CCAGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTTACTG| 1798
Sbjct 1739 |CCAGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCTTACGACGAACGCCCTTACTG| 1798
Query 1799 |CTGGCACTACCTTCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGT| 1858
Sbjct 1799 |CTGGCACTACCTTCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGT| 1858
Query 1859 |ATATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACACCGACAGGTGCGGCGCGCTAC| 1918
Sbjct 1859 |ATATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACACCGACAGGTGCGGCGCGCTAC| 1918
Query 1919 |CTACAGCTGGGGTGCAATGATACGGATGTCTTCGTCTTAAACAACACAGGCCACCGCT| 1978
Sbjct 1919 |CTACAGCTGGGGTGCAATGATACGGATGTCTTCGTCTTAAACAACACAGGCCACCGCT| 1978
Query 1979 |GGGCAATTGGTTCTGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGC| 2038


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Sbjct 1979  |GGGCAATGGTTGCGTTGTACTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGC| 2038
Query 2039  |GCCCCCTTGTGTGCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCCT| 2098
Sbjct 2039  |GCCCCCTTGTGTGCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCCT| 2098
Query 2099  |CCGCAAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG| 2158
Sbjct 2099  |CCGCAAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG| 2158
Query 2159  |GTGCATGGTGCAGTACCCGTATAGGCTTTGGCACTATCCTTTGACCATCAATTACACCAT| 2218
Sbjct 2159  |GTGCATGGTGCAGTACCCGTATAGGCTTTGGCACTATCCTTTGACCATCAATTACACCAT| 2218
Query 2219  |ATTCAAAGTCAGGATGTACGTGGGAGGGGTTCGAGCACAGGCTGAAGCGGCTGCAACTG| 2278
Sbjct 2219  |ATTCAAAGTCAGGATGTACGTGGGAGGGGTTCGAGCACAGGCTGAAGCGGCTGCAACTG| 2278
Query 2279  |GACGCGGGGCCGAACGCTGTGATCTGGAAGACAGGGACAGGTCAGGCTCAGCCCGTTGCT| 2338
Sbjct 2279  |GACGCGGGGCCGAACGCTGTGATCTGGAAGACAGGGACAGGTCAGGCTCAGCCCGTTGCT| 2338
Query 2339  |GCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTG| 2398
Sbjct 2339  |GCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTG| 2398
Query 2399  |CACCGGCCCTCATCCACCTCCACCAGAACATTGTGGAGCTGCAGTACTTGTACGGGGTAGG| 2458
Sbjct 2399  |CACCGGCCCTCATCCACCTCCACCAGAACATTGTGGAGCTGCAGTACTTGTACGGGGTAGG| 2458
Query 2459  |GTCAAGCATCGCGTCTTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCT| 2518
Sbjct 2459  |GTCAAGCATCGCGTCTTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCT| 2518
Query 2519  |TGCAGACGCGCGGCTCTGCTCCTGCTTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC| 2578
Sbjct 2519  |TGCAGACGCGCGGCTCTGCTCCTGCTTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC| 2578
Query 2579  |GGCTTTTGAGAACTCGTAATACTCAATGACGATCCCTGGCCGGGACGCACGGTCTTGT| 2638
Sbjct 2579  |GGCTTTTGAGAACTCGTAATACTCAATGACGATCCCTGGCCGGGACGCACGGTCTTGT| 2638
Query 2639  |GTCCCTTCCTCGTGTCTTCTGCTTTTGGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGC| 2698
Sbjct 2639  |GTCCCTTCCTCGTGTCTTCTGCTTTTGGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGC| 2698
Query 2699  |GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCTGCTCCTGCTGGCGTTGGCTCAGCG| 2758
Sbjct 2699  |GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCTGCTCCTGCTGGCGTTGGCTCAGCG| 2758
Query 2759  |GGCATAACGACTGGACACGAGGTGGCCGCGTCGTTGGCGGCGTGTGTTCTTGTGCGGTT| 2818
Sbjct 2759  |GGCATAACGACTGGACACGAGGTGGCCGCGTCGTTGGCGGCGTGTGTTCTTGTGCGGTT| 2818
Query 2819  |AATGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT| 2878
Sbjct 2819  |AATGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT| 2878
Query 2879  |TCAGTATTTTCTGACAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGT| 2938
Sbjct 2879  |TCAGTATTTTCTGACAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGT| 2938
Query 2939  |CcgggggggCGGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCTTGGTATT| 2998
Sbjct 2939  |CCGGGGGGGGCGGATGCCGTCATCTTACTCATGTGTGTGTAGTACACCCGACTCTGGTATT| 2998
Query 2999  |TGACATACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT| 3058
Sbjct 2999  |TGACATACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT| 3058
Query 3059  |GCTTAAAGTCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG| 3118
Sbjct 3059  |GTTTAAAGTCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG| 3118
Query 3119  |GAAGAT-AGCCGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTG| 3177

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Sbjct 3119      |GGAGATGA-CCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTGGGGGCGCTTACTG| 3177
Query 3178      |GCACCTATGTGTATACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAG| 3237
Sbjct 3178      |GCACCTATGTGTATACCATCTCACCCTCTTCGAGACTGGGCGCACACGGCTGCGAG| 3237
Query 3238      |ATCTGGCCGTGGCTGTGGAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATACGT| 3297
Sbjct 3238      |ATCTGGCCGTGGCTGTGGAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATACGT| 3297
Query 3298      |GGGGGGCAGATACCGCCGCTGCGGTGACATCATCAACGGCTTGGCCGCTCTCTGCCCGTA| 3357
Sbjct 3298      |GGGGGGCAGATACCGCCGCTGCGGTGACATCATCAACGGCTTGGCCGCTCTCTGCCCGTA| 3357
Query 3358      |GGGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCAAGGGGTGGAGTTGC| 3417
Sbjct 3358      |GGGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCAAGGGGTGGAGTTGC| 3417
Query 3418      |TGCGGCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCA| 3477
Sbjct 3418      |TGCGGCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCA| 3477
Query 3478      |GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTA| 3537
Sbjct 3478      |GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTA| 3537
Query 3538      |CCCAAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCGG| 3597
Sbjct 3538      |CCCAAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCGG| 3597
Query 3598      |GAACGAGGACCATCGCATCACCAAGGGTCTGTGTCATCAGATGTATACCAATGTGGACC| 3657
Sbjct 3598      |GAACGAGGACCATCGCATCACCAAGGGTCTGTGTCATCAGATGTATACCAATGTGGACC| 3657
Query 3658      |AAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCAITGACACCTGTACCTGGG| 3717
Sbjct 3658      |AAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCAITGACACCTGTACCTGGG| 3717
Query 3718      |GCTCCTCGGACCTTTTACCTGGTCACGAGGCACGCCGATGTCAITCCCGTGCGCCGGCGAG| 3777
Sbjct 3718      |GCTCCTCGGACCTTTTACCTGGTCACGAGGCACGCCGAGCTCAITCCCGTGCGCCGGCGAG| 3777
Query 3778      |GTGATAGCAGGGGTAGCTGCTTTTCGCCCGGCCCAATTTCTACTTGAAGGCTCCTCGG| 3837
Sbjct 3778      |GTGATAGCAGGGGTAGCTGCTTTTCGCCCGGCCCAATTTCTACTTGAAGGCTCCTCGG| 3837
Query 3838      |GGGGTCCGCTGTTGTGCCCCCGGGACACGCGTGGGCCATTACAGGGCCGCGGTGTGCA| 3897
Sbjct 3838      |GGGGTCCGCTGTTGTGCCCCCGGGACACGCGTGGGCCATTACAGGGCCGCGGTGTGCA| 3897
Query 3898      |CCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGA| 3957
Sbjct 3898      |CCCGTGGAGTGGCCAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGA| 3957
Query 3958      |GATCCCCGGTGTTCACGGACAACCTCCTCACCAGCAGTGGCCCCAGAGCTTCCAGGTGG| 4017
Sbjct 3958      |GATCCCCGGTGTTCACGGACAACCTCCTCACCAGCAGTGGCCCCAGAGCTTCCAGGTGG| 4017
Query 4018      |CCCACTGCATGCTCCCAACGGCAGCGGTAAGAGCACCAAGGTTCCGGCTGCGTACGCGAG| 4077
Sbjct 4018      |CCCACTGCATGCTCCCAACGGCAGTGGTAAGAGCACCAAGGTTCCGGCTGCGTACGCGAG| 4077
Query 4078      |CCAGGGCTACAAGGTGTTGGTGTCTCAACCCCTCTGTTGTGTGAACGCTGGGCTTTGGTG| 4137
Sbjct 4078      |CCAGGGCTACAAGGTGTTGGTGTCTCAACCCCTCTGTTGTGTGAACGCTGGGCTTTGGTG| 4137
Query 4138      |CTTACATGTCCAAGGCCATGGGGTGTATCCTAATATCAGGACCGGGGTGAGAACAAATTA| 4197
Sbjct 4138      |CTTACATGTCCAAGGCCATGGGGTGTATCCTAATATCAGGACCGGGGTGAGAACAAATTA| 4197
Query 4198      |CCACTGGCAGCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCT| 4257
Sbjct 4198      |CCACTGGCAGCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCT| 4257
Query 4258      |CAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCA| 4317

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Sbjct	4258	CAGGAGGGCGCTTATGACATAAATAATTGTGACGAGTGGCCATCCACGGATGCCACATCCA	4317
Query	4318	TCTTGGGCATCGGCACATGTCCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGC	4377
Sbjct	4318	TCTTGGGCATCGGCACATGTCCCTTGACCAAGCAGAGACTGCGGGGGCGAGATTGGTTGTGC	4377
Query	4378	TCGCCACTGCTACCCCTCCGGGCTCCGTACTGTGTCCCATCTTAACATCGAGGAGTTG	4437
Sbjct	4378	TCGCCACTGCTACCCCTCCGGGCTCCGTACTGTGTCCCATCTTAACATCGAGGAGTTG	4437
Query	4438	CTCTGTCCACCACCGGAGAGATCCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATC	4496
Sbjct	4438	CTCTGTCCACCACCGGAGAGATCCC-TTCTACGGCAAGGCTATCCCCCTCGAGGTGATC	4496
Query	4497	AAGGGGGGAAGACATCTCATCTTCTGCCACTCAAGAAGAAGTGCAGCAGCTCGCCGGC	4556
Sbjct	4497	AAGGGGGGAAGACATCTCATCTTCTGTGACTCAAGAAGAAGTGCAGCAGCTCGCCGGC	4556
Query	4557	AAGCTGGTGCATTGGGCATCAATGCGGTGGCTACTACC CGGTCTTGACGTGCTGTGTC	4616
Sbjct	4557	AAGCTGGTGCATTGGGCATCAATGCGGTGGCTACTACC CGGACTTGACGTGCTGTGTC	4616
Query	4617	ATCCCGACACGCGCGCATGTTGTCGTGCTGTGCACCGATGCTCTCATGACTGGCTTTACC	4676
Sbjct	4617	ATCCCGACACGCGCGCATGTTGTCGTGCTGTGCACCGATGCTCTCATGACTGGCTTTACC	4676
Query	4677	GGCGACTTCGACTCTGTGATAGACTGCAACACGTTGTGCTACTCAGACAGTCGATTTCAGC	4736
Sbjct	4677	GGCGACTTCGACTCTGTGATAGACTGCAACACGTTGTGCTACTCAGACAGTCGATTTCAGC	4736
Query	4737	CTTGACCCCTACCTTTTACCATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACT	4796
Sbjct	4737	CTTGACCCCTACCTTTTACCATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACT	4796
Query	4797	CAACGCGCGGGCAGGACTGGCAGGGGGAAGCCAGGCTCTATAGATTGTGTGGCACGGGG	4856
Sbjct	4797	CAGCGCGGGGCGAGGACTGGCAGGGGGAAGCCAGGCTCTACAGATTGTGTGGCACGGGG	4856
Query	4857	GAGCGCCCTCCGCGATGTTTCGACTFCGTCGTCTCTGTGAGTGCTATGACGCGGGCTGT	4916
Sbjct	4857	GAGCGCCCTCCGCGATGTTTCGACTFCGTCGTCTCTGTGAGTGCTATGACGCGGGCTGT	4916
Query	4917	GCTTGGTATGAGCTACGCCCCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC	4976
Sbjct	4917	GCTTGGTATGAGCTATGCCCCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC	4976
Query	4977	CCGGGGCTTCCCGTGTGCCAGGACATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTC	5036
Sbjct	4977	CCGGGGCTTCCCGTGTGCCAGGACATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTC	5036
Query	5037	ACTCATATAGATGCCACATTTTATCCAGACAAGCAGAGTGGGGAGAACTTTCCCTTAC	5096
Sbjct	5037	ACCCATATAGATGCCACATTTCTATCCAGACAAGCAGAGTGGGGAGAACTTTCCCTTAC	5096
Query	5097	CTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGAC	5156
Sbjct	5097	CTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGAC	5156
Query	5157	CAGATGTGGAAGTGTTTGTATCGGCCTTAAACCACCCCTCCATGGGCCAACACCCCTGCTA	5216
Sbjct	5157	CAGATGTGGAAGTGTTTGTATCGGCCTTAAACCACCCCTCCATGGGCCAACACCCCTGCTA	5216
Query	5217	TACAGACTGGGCGTGTTTGAATGAAGTCACCGTGACGCACCAATACCAAAATACATC	5276
Sbjct	5217	TACAGACTGGGCGTGTTTGAATGAAGTCACCGTGACGCACCAATACCAAAATACATC	5276
Query	5277	ATGACATGCATGTCCGGCAGCTGGAGGTGCTCAGCAGCACTTGGGTGCTCGTTGGCGGC	5336
Sbjct	5277	ATGACATGCATGTCCGGCAGCTGGAGGTGCTCAGCAGCACTTGGGTGCTCGTTGGCGGC	5336
Query	5337	GTCTGGGTGCTCTGGCCCGGTAATTGCGTGTCAACAGCGTGCCTGTGCTATGTGGCGAG	5396
Sbjct	5337	GTCTGGGTGCTCTGGCCCGGTAATTGCGTGTCAACAGCGTGCCTGTGCTATGTGGCGAG	5396
Query	5397	ATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTC	5455

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Sbjct 5397 ATTGCTCTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTCTCTACAGGAGTTC 5456
Query 5457 GATGAGATGGAAGAGTGTCTCTCAGCACTTACCGTACATCAGCAAGGAGTATGATGCTCGCT 5516
Sbjct 5457 GATGAGATGGAAGAGTGTCTCTCAGCACTTACCGTACATCAGCAAGGAGTATGATGCTCGCT 5516
Query 5517 GAGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACGCCGCTCCCGCATGCAGAGGTT 5576
Sbjct 5517 GAGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACGCCGCTCCCGCATGCAGAGGTT 5576
Query 5577 ATCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATG 5636
Sbjct 5577 ATCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATG 5636
Query 5637 TGGAAATTCATCAGTGGGATACAATACTTGGCGGGCCTGCAACGCTGCCTGGTAACCC 5696
Sbjct 5637 TGGAAATTCATCAGTGGGATACAATACTTGGCGGGCCTGCAACGCTGCCTGGTAACCC 5696
Query 5697 GCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCACTGGCCAA 5756
Sbjct 5697 GCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCACTGGCCAA 5756
Query 5757 ACCCTCCTCTTCAACATATTgggggggTGGTGGCTGCCAGCTCGCCGCCCGCGGTGCC 5816
Sbjct 5757 ACCCTCCTCTTCAACATATTGGGGGGTGGTGGCTGCCAGCTCGCCGCCCGCGGTGCC 5816
Query 5817 GCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGG 5876
Sbjct 5817 GCTACCGCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGG 5876
Query 5877 AAGGTCCTCGTGACATCTTTCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCA 5936
Sbjct 5877 AAGGTCCTCGTGACATCTTTCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCA 5936
Query 5937 TTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCC 5996
Sbjct 5937 TTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCC 5996
Query 5997 ATCCCTCTCGCTGGAGCCCTTGTAGTCGGTGTGGTCTGCCGAGCAATACTGCGCCGGCAC 6056
Sbjct 5997 ATCCCTCTCGCTGGAGCCCTTGTAGTCGGTGTGGTCTGCCGAGCAATACTGCGCCGGCAC 6056
Query 6057 GTTGGCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCTCCCGG 6116
Sbjct 6057 GTTGGCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCTCCCGG 6116
Query 6117 GGGAAACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCTCACT 6176
Sbjct 6117 GGGAAACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCTCACT 6176
Query 6177 GCCATACTCAGCAGCCTACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGC 6236
Sbjct 6177 GCCATACTCAGCAGCCTACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGC 6236
Query 6237 TCGGAGTGATACCACTCCATGCTCCGGTTCCTGGCTAAGGACATCTGGGACTGGATATGC 6296
Sbjct 6237 TCGGAGTGATACCACTCCATGCTCCGGTTCCTGGCTAAGGACATCTGGGACTGGATATGC 6296
Query 6297 GAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAAGTGCCTGGG 6356
Sbjct 6297 GAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAAGTGCCTGGG 6356
Query 6357 ATTCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATATG 6416
Sbjct 6357 ATTCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATATG 6416
Query 6417 CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG 6476
Sbjct 6417 CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG 6476
Query 6477 ATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAACGCCTAC 6536
Sbjct 6477 ATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAACGCCTAC 6536
Query 6537 ACCACGGGCCCTGTACTCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTG 6596
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Sbjct	6537	ACCACGGGCCCCGTGACTCCCCCTCCTGCGCCGAACATAAGTTGCGCGTGTGAGGGGTG	6596
Query	6597	TCTGCAGAGGAATACGTGGAGATAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATG	6656
Sbjct	6597	TCTGCAGAGGAATACGTGGAGATAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATG	6656
Query	6657	ACTACTGACAATCTTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTG	6716
Sbjct	6657	ACTACTGACAATCTTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTG	6716
Query	6717	GACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGAAGCCCTTGCTGCGGGAGGAGGTA	6776
Sbjct	6717	GACGGGGTGCGCCTACATAGTTTGGCGCCCCCTTGAAGCCCTTGCTGCGGGAGGAGGTA	6776
Query	6777	TCATTGAGAGTAGGACTCCACGAGTACCCGGTGGGTGCGAATTACCTTGCAGCCCGAA	6836
Sbjct	6777	TCATTGAGAGTAGGACTCCACGAGTACCCGGTGGGTGCGAATTACCTTGCAGCCCGAA	6836
Query	6837	CCGGAGCTAGCCGTTGTCAGTGCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGG	6896
Sbjct	6837	CCGGAGCTAGCCGTTGTCAGTGCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGG	6896
Query	6897	GCCGGGAGAAAGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAG	6956
Sbjct	6897	GCCGGGAGAAAGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCGAGCCAG	6956
Query	6957	CTGTCCGCTCCATCTCTCAAGGCAACTTGACACGCCAACCAATGACTCCCTTGACGCCGAG	7016
Sbjct	6957	CTGTCCGCTCCATCTCTCAAGGCAACTTGACACGCCAACCAATGACTCCCTTGACGCCGAG	7016
Query	7017	CTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTGAG	7076
Sbjct	7017	CTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTGAG	7076
Query	7077	TCAGAGACAAGTGGTGATCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAG	7136
Sbjct	7077	TCAGAGACAAGTGGTGATCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAG	7136
Query	7137	CGGGAGGTCTCCGTACCTGCAAAATTTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTG	7196
Sbjct	7137	CGGGAGGTCTCCGTACCCGCAGAAATTTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTG	7196
Query	7197	CCCGTCTGGGCGCGGCCGGACTIONAACCCCCCGCTAGTAGAGACGTGGA AAAAGCCTGAC	7256
Sbjct	7197	CCCGTTTGGGCGCGGCCGGACTIONAACCCCCCGCTAGTAGAGACGTGGA AAAAGCCTGAC	7256
Query	7257	TACGAACCACCTGTGGTCCATGGCTGCCGCTACCACTCCACGGTCCCTCCTGTGCCT	7316
Sbjct	7257	TACGAACCACCTGTGGTCCATGGCTGCCGCTACCACTCCACGGTCCCTCCTGTGCCT	7316
Query	7317	CCGCCCTCGAAAAAGCGTACGTTGGTCTTACCGAATCAACCTATCTACTGCCTTGGCC	7376
Sbjct	7317	CCGCCCTCGAAAAAGCGTACGTTGGTCTTACCGAATCAACCTATCTACTGCCTTGGCC	7376
Query	7377	GAGCTTGCACCACAAAGTTTGTGGAGCTCTCTCAACTTCGGGCATTACGGGGGACAAATACG	7436
Sbjct	7377	GAGCTTGCACCACAAAGTTTGTGGAGCTCTCTCAACTTCGGGCATTACGGGGGACAAATATG	7436
Query	7437	ACAACATCTCTGAGCCCGCCCTTCTGGCTGCGGGGCTCCGACGTTGAGTCCTAT	7496
Sbjct	7437	ACAACATCTCTGAGCCCGCCCTTCTGGCTGCCCGCCGACTCCGACGTTGAGTCCTAT	7496
Query	7497	TCTTCCATGCGGGGCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAATGG	7556
Sbjct	7497	TCTTCCATGCCCGCCCTGGAGGGGAGCCTGGGGATCCGGATTCAGCGACGGGTCAATGG	7556
Query	7557	TCGACGGTCAGTAGTGGGGCCACAGGAAGATGCTGTTGCTGCTCAATGCTTTATTC	7616
Sbjct	7557	TCGACGGTCAGTAGTGGGGCCACAGGAAGATGCTGTTGCTGCTCAATGCTTTATTC	7616
Query	7617	TGGACAGGCACTCGTCACCCCGTGGCTGCGGAAGAACAAAACTGCCCATCAACGCA	7676
Sbjct	7617	TGGACAGGCGCACTCGTCACCCCGTGGCTGCGGAAGAACAAAACTGCCCATCAACGCA	7676
Query	7677	CTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACTTCACGCACTGCT	7736

Sbjct	7677	CTGAGCAACTCGTTGCTACGCCATCACAATCTGGTATATTCACCACCTTCACGCACTGCT	7736
Query	7737	TGCCAAAGGCAGAGAAAGTCACATTTGACAGACTGCAAGTTCCTGGACAGCATTACCAG	7796
Sbjct	7737	TGCCAAAGGCAGAGAAAGTCACATTTGACAGACTGCAAGTTCCTGGACAGCATTACCAG	7796
Query	7797	GACGTGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTA	7856
Sbjct	7797	GACGTGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTA	7856
Query	7857	GAGGAAGCTTGACGCTGACGCCCCACATTGACGCAAAATCCAAAGTTTGGCTATGGGGCA	7916
Sbjct	7857	GAGGAAGCTTGACGCTGACGCCCCACATTGACGCAAAATCCAAAGTTTGGCTATGGGGCA	7916
Query	7917	AAAGACGCTCGGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTTCGTTGGAAAGAC	7976
Sbjct	7917	AAAGACGCTCGGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTTCGTTGGAAAGAC	7976
Query	7977	CTTCTGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAAGACGAGTTTTC	8036
Sbjct	7977	CTTCTGGAAGACAGTGTAAACCAATAGACACTATCATCATGGCCAAAGACGAGTCTTC	8036
Query	8037	TGCGTTACGCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCGCCACCTG	8096
Sbjct	8037	TGCGTTACGCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCGCCACCTG	8096
Query	8097	GGCGTGCCTGTGTCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCC	8156
Sbjct	8097	GGCGTGCCTGTGTCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCC	8156
Query	8157	GTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTG	8216
Sbjct	8157	GTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTG	8216
Query	8217	CAAGCGTGGAAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGAC	8276
Sbjct	8217	CAAGCGTGGAAAGTCCAAGAAGACCCCGATGGGGTTCCCGTATGATACCCGCTGTTTTGAC	8276
Query	8277	TCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTG	8336
Sbjct	8277	TCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTG	8336
Query	8337	GACCCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCT	8396
Sbjct	8337	GACCCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCT	8396
Query	8397	CTTACCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGGAGCGGCTACTG	8456
Sbjct	8397	CTTACCAATTCAAGGGGGGAAAACCTGCGGCTATCGCAGGTGCCGCGGAGCGGCTACTG	8456
Query	8457	ACAACCTAGCTGTGGTAACACCTCTACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCC	8516
Sbjct	8457	ACAACCTAGCTGTGGTAACACCTCTACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCC	8516
Query	8517	GCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAA	8576
Sbjct	8517	GCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAA	8576
Query	8577	AGTGGGGGGTTCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGAGGGCTATGACCAGG	8636
Sbjct	8577	AGTGGGGGGTTCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGAGGGCTATGACCAGG	8636
Query	8637	TACTCCGCCCCCGGGGACCCCAACAGAAATACGACTTGGAGCTTATAACATCA	8696
Sbjct	8637	TACTCCGCCCCCGGGGACCCCAACAGAAATACGACTTGGAGCTTATAACATCA	8696
Query	8697	TGCTCCTCCAACGTGTGCTGCGCCACGACGGCGCTGGAAAGAGGCTTACTACCTTACC	8756
Sbjct	8697	TGCTCCTCCAACGTGTGCTGCGCCACGACGGCGCTGGAAAGAGGCTTACTACCTTACC	8756
Query	8757	CGTGACCTTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTC	8816
Sbjct	8757	CGTGACCTTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTC	8816
Query	8817	AATTCCTGGCTAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATACTG	8876

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Sbjct 8817 |AATTCCTGGCTAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATACTG| 8876
Query 8877 |ATGACCCATTTCCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGT| 8936
Sbjct 8877 |ATGACCCATTTCCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGT| 8936
Query 8937 |GAGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGA| 8996
Sbjct 8937 |GAGATCTACGCAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGA| 8996
Query 8997 |CTCCATGGCCTCAGCGCATTTTCTACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTG| 9056
Sbjct 8997 |CTCCATGGCCTCAGCGCATTTTCTACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTG| 9056
Query 9057 |GCCGATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGCGCCGG| 9116
Sbjct 9057 |GCCGATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGCGCCGG| 9116
Query 9117 |ACGCTCCGCGTAGGCTTCTGTCCAGAGGAGGAGGGCTGCCATATGTGGCAAGTACCTC| 9176
Sbjct 9117 |ACGCTCCGCGTAGGCTTCTGTCCAGAGGAGGAGGGCTGCCATATGTGGCAAGTACCTC| 9176
Query 9177 |TTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGGCTG| 9236
Sbjct 9177 |TTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGGCTG| 9236
Query 9237 |GACTTGTCCGGTTGGTTACGGCTGGCTACAGCGGGGAGACATTATCACAGCGTGTCT| 9296
Sbjct 9237 |GACTTGTCCGGTTGGTTACGGCTGGCTACAGCGGGGAGACATTATCACAGCGTGTCT| 9296
Query 9297 |CATGCCGGCCCGCTGGTTCTGGTTTTCGCTACTCTCGCTCGCTGACAGGGGTAGGCATC| 9356
Sbjct 9297 |CATGCCGGCCCGCTGGTTCTGGTTTTCGCTACTCTCGCTCGCTGACAGGGGTAGGCATC| 9356
Query 9357 |TACCTCTCTCCCAACCGATGAAGGTTGGGGTAAACACCTCCGGCCTCTTAAGCCATTTC--| 9415
Sbjct 9357 |TACCTCTCTCCCAACCGGTAAGGTTGGGGTAAACACCTCCGGCCTCTTAAGCCATTTC--| 9416
Query 9416 |TG| 9461
Sbjct 9417 |TTTTTTTTTTTTTTTTTTTTTCCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT| 9476
Query 9462 |-----cattt--catttctttttttttttttttttt--tcatttcttttAATGGTGGCTCCATC| 9513
Sbjct 9477 |TTTTTCCCTTTTCTCTCTTTTTTCCCTTCTCTCTCCCTCTCTTTAATGGTGGCTCCATC| 9536
Query 9514 |TTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCT| 9573
Sbjct 9537 |TTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCT| 9596
Query 9574 |GATACTGGCCTCTCTGCAGATCATGT| 9599
Sbjct 9597 |GATACTGGCCTCTCTGCAGATCATGT| 9622

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>dbj|DL487761.1| FUNCTIONAL DNA CLONE FOR HEPATITIS C VIRUS (HCV) AND USES THEREOF
Length=9416

Score = 1.688e+04 bits (9142), Expect = 0.0
Identities = 9318/9404 (99%), Gaps = 7/9404 (0%)
Strand=Plus/Plus

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Query 1 |GCCAGCCCCCTGATGGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAACACT| 59
Sbjct 1 |GCCAGCCCCCTGATGGGGGCGACACTCCACCAT-AGATCACTCCCCTGTGAGGAACACT| 59
Query 60 |GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCGACGCCCTCCAGGA| 119
Sbjct 60 |GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCGACGCCCTCCAGGA| 119
Query 120 |cccccccTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA| 179
Sbjct 120 |CCCCCCTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA| 179
Query 180 |GGACACCGGGTCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC| 239

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Sbjct	180		239
Query	240	CGCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCCTGTGGTACTGCCTGATAG	299
Sbjct	240	CGCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCCTGTGGTACTGCCTGATAG	299
Query	300	GGTGCTTGCAGTGCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACGAATCCTAAA	359
Sbjct	300	GGTGCTTGCAGTGCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACGAATCCTAAA	359
Query	360	CCTCAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAAGTCCCGGGT	419
Sbjct	360	CCTCAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAAGTCCCGGGT	419
Query	420	GGCGGTGAGTCTGTGGTGGAGTTTACTTGTGGCGCGCAGGGGCCCTAGATTGGGTGTG	479
Sbjct	420	GGCGGTGAGTCTGTGGTGGAGTTTACTTGTGGCGCGCAGGGGCCCTAGATTGGGTGTG	479
Query	480	CGCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTACGCCATATCCCC	539
Sbjct	480	CGCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTACGCCATATCCCC	539
Query	540	AAGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGTTACCTTGGCCCCCTCTAT	599
Sbjct	540	AAGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGTTACCTTGGCCCCCTCTAT	599
Query	600	GGCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCATAGC	659
Sbjct	600	GGCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCATAGC	659
Query	660	TGGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTGGGTAAAGTTCATGCATACCCCT	719
Sbjct	660	TGGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTGGGTAAAGTTCATGCATACCCCT	719
Query	720	ACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTGGCGCCCTCTTGGAGGC	779
Sbjct	720	ACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTGGCGCCCTCTTGGAGGC	779
Query	780	GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACA	839
Sbjct	780	GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACA	839
Query	840	GGGAACCTTCTGGTTGCTCTTTCTATCTTCTCTGTCCTCTCTTGCCTGACT	899
Sbjct	840	GGGAACCTTCTGGTTGCTCTTTCTATCTTCTCTGTCCTCTCTTGCCTGACT	899
Query	900	GTGCCCGCTTCAGCCTACCAAGTGGCAATTCTCGGGGCTTTACCATGTGACCAATGAT	959
Sbjct	900	GTGCCCGCTTCAGCCTACCAAGTGGCAATTCTCGGGGCTTTACCATGTGACCAATGAT	959
Query	960	TGCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGT	1019
Sbjct	960	TGCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGT	1019
Query	1020	GTCCCTTGCCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Sbjct	1020	GTCCCTTGCCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Query	1080	GCCACCAGGAGCGGCAAACTCCCAACAACGAGCTTCGAGCTCATATGCATTCGCTTGTG	1139
Sbjct	1080	GCCACCAGGAGCGGCAAACTCCCAACAACGAGCTTCGAGCTCATATGCATTCGCTTGTG	1139
Query	1140	GGGAGCGCCACCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTT	1199
Sbjct	1140	GGGAGCGCCACCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTT	1199
Query	1200	GTGTGTTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAA-GACTGCAATTG	1258
Sbjct	1200	GTGTGTTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAAG-CTGCAATTG	1258
Query	1259	TTCTATCTATCCCGGCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACGT	1318
Sbjct	1259	TTCTATCTATCCCGGCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACGT	1318
Query	1319	GTCCCTACGGCAGCGTTGGTGGTAGCTCAGTGTCTCCGGATCCCAAGCCATCATGGA	1378

Sbjct	1319	GTCCCCCTACCGCAGCGTGTGGTGGTAGCTCAGCTGCTCCGGATCCCAACGCCATCATGGA	1378
Query	1379	CATGATCGCTGGTGCTCTACTGGGGAGTCTTGGCGGCATAGCGTATTCTCCATGGTGGG	1438
Sbjct	1379	CATGATCGCTGGTGCTCTACTGGGGAGTCTTGGCGGCATAGCGTATTCTCCATGGTGGG	1438
Query	1439	GAACTGGGCGAAGGTCTTGTTAGTGTCTGCTGCTATTTCGCCGCGTCGACGCGGAAACCCA	1498
Sbjct	1439	GAACTGGGCGAAGGTCTTGTTAGTGTCTGCTGCTATTTCGCCGCGTCGACGCGGAAACCCA	1498
Query	1499	CGTCACCGGGGGAATGCCGGCGCACCACGGCTTGGGCTTGTGGTCTCCTTACACCAGG	1558
Sbjct	1499	CGTCACCGGGGGAAGTGCGGGCCACACCACGGCTTGGGCTTGTGGTCTCCTTACACCAGG	1558
Query	1559	CGCCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCAGATCAATAGCAGCGC	1618
Sbjct	1559	CGCCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCAGATCAATAGCAGCGC	1618
Query	1619	CTTGAATTGCAATGAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAA	1678
Sbjct	1619	CTTGAAGTCAACGATAGCCTTACCACCGGCTGGTTAGCAGGGCTCTTCTATCGCCACAA	1678
Query	1679	ATTCAACTCTTCAGGCTGTCTTGAGAGGTTGGCCAGCTGCCGACGCCCTTACCGATTTTGC	1738
Sbjct	1679	ATTCAACTCTTCAGGCTGTCTTGAGAGGTTGGCCAGCTGCCGACGCCCTTACCGATTTTGC	1738
Query	1739	CCAGGGCTGGGGTCTTATCAGTTATGCCAACGGAAAGCGGCCTCGACGAACGCCCTTACTG	1798
Sbjct	1739	CCAGGGCTGGGGTCCCATCAGTTATGCCAACGGAAAGCGGCCTTGACGAACGCCCTTACTG	1798
Query	1799	CTGGCACTACCTCCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGT	1858
Sbjct	1799	TGGCACTACCTCCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGT	1858
Query	1859	ATATTGCTTCACTCCAGCCCGGTGGTGGTGGGAACGACCGAGTGGCGGCCCTAC	1918
Sbjct	1859	ATATTGCTTCACTCCAGCCCGGTGGTGGTGGGAACGACCGAGTGGCGGCCCTAC	1918
Query	1919	CTACAGCTGGGGTGCAAAATGATACGGATGCTTCTGCCTTAACAACACGAGCCACCGCT	1978
Sbjct	1919	CTACAGCTGGGGTGCAAAATGATACGGATGCTTCTGCCTTAACAACACGAGCCACCGCT	1978
Query	1979	GGGCAATTGGTTCGGTTGTACCTGGATGAAGTCACTGGATTACCAAAGTGTGCGGAGC	2038
Sbjct	1979	GGGCAATTGGTTCGGTTGTACCTGGATGAAGTCACTGGATTACCAAAGTGTGCGGAGC	2038
Query	2039	GCCCCCTGTGTGTCATCGGAGGGGTGGGCAACAACACTTGTCTGCCCCACTGATTGCTT	2098
Sbjct	2039	GCCCCCTGTGTGTCATCGGAGGGGTGGGCAACAACACTTGTCTGCCCCACTGATTGCTT	2098
Query	2099	CCGCAAACTCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Sbjct	2099	CCGCAAACTCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Query	2159	GTGCATGGTCTGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT	2218
Sbjct	2159	GTGCATGGTCTGACTACCCGTATAGGCTTTGGCACTATCCTTGTACTATCAATTACACCAT	2218
Query	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGGTCTGAGACAGGCTGGAAGCGGCCTGCAACTG	2278
Sbjct	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGGTCTGAGACAGGCTGGAAGCGGCCTGCAACTG	2278
Query	2279	GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCGTTGCT	2338
Sbjct	2279	GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCATTGCT	2338
Query	2339	GCTGTCCACCAACAGATGGCAGGTCTTCCGTGTTCTTTCACGACCTGCCAGCCTTGTC	2398
Sbjct	2339	GCTGTCCACCAACAGATGGCAGGTCTTCCGTGTTCTTTCACGACCTGCCAGCCTTGTC	2398
Query	2399	CACGGCCCTATCCACCTCCACAGAACATTTGGACGTGCAGTACTTGTACGGGTAGG	2458
Sbjct	2399	CACGGCCCTATCCACCTCCACAGAACATTTGGACGTGCAGTACTTGTACGGGTAGG	2458
Query	2459	GTCAGCATTCGCTCTGGGCAATTAAGTGGGAGTACGTCGTTCTCTGTTCTTCTGCT	2518

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Sbjct 2459 |GTC|AAG|CAT|CGC|GCT|CTG|GCC|ATTA|AGT|GGG|AGT|ACG|TCG|TTC|CTG|TTC|CTT|CTG|CT| 2518
Query 2519 |TGC|AGAC|GCG|CGGT|CTG|CTCT|GCTT|GTG|GAT|GAT|GTT|ACT|CAT|ATC|CA|AAG|CGG|AGGC| 2578
Sbjct 2519 |TGC|AGAC|GCG|CGGT|CTG|CTCT|GCTT|GTG|GAT|GAT|GTT|ACT|CAT|ATC|CA|AAG|CGG|AGGC| 2578
Query 2579 |GGC|TTT|TGG|AGAAC|CTCGTA|AATA|CTCAAT|GCAG|CAT|CCT|GGC|CGG|AGC|GAC|CGGT|CTT|GT| 2638
Sbjct 2579 |GGC|TTT|TGG|AGAAC|CTCGTA|AATA|CTCAAT|GCAG|CAT|CCT|GGC|CGG|AGC|GAC|CGGT|CTT|GT| 2638
Query 2639 |GTCC|TTCT|CTG|TGT|TCTT|CTG|CTTT|GCG|TGGT|ATCT|GAAG|GGT|AGT|GGG|TGCC|CGG|AGC| 2698
Sbjct 2639 |GTCC|TTCT|CTG|TGT|TCTT|CTG|CTTT|GCG|TGGT|ATCT|GAAG|GGT|AGT|GGG|TGCC|CGG|AGC| 2698
Query 2699 |GGT|CTAC|GCG|CCTCT|ACGG|GATG|GGC|CTCT|CTCT|GCTCT|GCTG|TGG|GCTT|GGCT|CAGCG| 2758
Sbjct 2699 |GGT|CTAC|GCG|CCTCT|ACGG|GATG|GGC|CTCT|CTCT|GCTCT|GCTG|TGG|GCTT|GGCT|CAGCG| 2758
Query 2759 |GGC|ATAC|GCA|CTGG|ACAC|GGAG|GTGG|CCG|CGTC|GTG|TGG|CGG|CGT|TGT|TCTT|GTC|GGGT| 2818
Sbjct 2759 |GGC|ATAC|GCA|CTGG|ACAC|GGAG|GTGG|CCG|CGTC|GTG|TGG|CGG|CGT|TGT|TCTT|GTC|GGGT| 2818
Query 2819 |AAT|GGC|GTG|ACT|CTGT|GCC|ATATTA|ACA|AGCG|CTATAT|CAG|CTGGT|GCAT|GTG|TGG|GCT| 2878
Sbjct 2819 |AAT|GGC|GTG|ACT|CTGT|ACC|ATATTA|ACA|AGCG|CTATAT|CAG|CTGGT|GCAT|GTG|TGG|GCT| 2878
Query 2879 |TCAGT|ATTTT|TCT|GACC|AGAGT|AGA|AGCG|CAACT|GCAC|GTG|TGGGT|TCAAC|GTT| 2938
Sbjct 2879 |TCAGT|ATTTT|TCT|GACC|AGAGT|AGA|AGCG|CAACT|GCAC|GTG|TGGGT|TCAAC|GTT| 2938
Query 2939 |CCG|GGG|GGG|GGG|CGG|GAT|GCC|GTCA|TCTT|ACT|CAT|GTG|TGT|AGT|ACAC|CGAC|CCTT|GTT| 2998
Sbjct 2939 |CCG|GGG|GGG|GGG|CGG|GAT|GCC|GTCA|TCTT|ACT|CAT|GTG|TGT|AGT|ACAC|CGAC|CCTT|GTT| 2998
Query 2999 |TGAC|ATAC|CAAA|CTACT|CTT|GCG|CATCTT|CGG|ACCC|CTT|TGG|ATCTT|CAAG|CCAG|TTT| 3058
Sbjct 2999 |TGAC|ATAC|CAAA|CTACT|CTT|GCG|CATCTT|CGG|ACCC|CTT|TGG|ATCTT|CAAG|CCAG|TTT| 3058
Query 3059 |GCTTAA|AGT|CCCC|TACTT|CTG|TGC|GCGT|TCA|AGG|CCTT|CTCC|GGAT|CTG|CG|CGCT|AG|CGCG| 3118
Sbjct 3059 |GCTTAA|AGT|CCCC|TACTT|CTG|TGC|GCGT|TCA|AGG|CCTT|CTCC|GGAT|CTG|CG|CGCT|AG|CGCG| 3118
Query 3119 |GAAG|ATAG|CCG|GAGG|TCATT|ACG|TGCA|AAT|GGCC|ATCAT|CAAGT|TAG|GGG|CGCTT|ACT|GG| 3178
Sbjct 3119 |GAAG|ATAG|CCG|GAGG|TCATT|ACG|TGCA|AAT|GGCC|ATCAT|CAAGT|TAG|GGG|CGCTT|ACT|GG| 3178
Query 3179 |CACC|TAGT|GTATA|AACCAT|CTC|ACCC|CTCT|TCG|AGACT|TGGG|CGC|ACA|ACG|GCTT|GCG|AGA| 3238
Sbjct 3179 |CACC|TAGT|GTATA|AACCAT|CTC|ACCC|CTCT|TCG|AGACT|TGGG|CGC|ACA|ACG|GCTT|GCG|AGA| 3238
Query 3239 |TCTG|GCGT|TGGCT|GTGGA|ACCA|GTC|GCTT|CTCC|GGAAT|GGAG|ACCA|AGCT|CATC|ACG|TG| 3298
Sbjct 3239 |TCTG|GCGT|TGGCT|GTGGA|ACCA|GTC|GCTT|CTCC|GGAAT|GGAG|ACCA|AGCT|CATC|ACG|TG| 3298
Query 3299 |GGGG|GAGAT|ACCG|CCG|CGT|GCGGT|GAC|ATCAT|CAAC|GGCTT|GCC|CGTCT|CTG|CCCG|TAG| 3358
Sbjct 3299 |GGGG|GAGAT|ACCG|CCG|CGT|GCGGT|GAC|ATCAT|CAAC|GGCTT|GCC|CGTCT|CTG|CCCG|TAG| 3358
Query 3359 |GGGC|AGGAGAT|ACTG|CTT|GGG|CAG|CCG|ACG|GAAT|GGTCT|CCA|AGGGG|TGAGG|TTGCT| 3418
Sbjct 3359 |GGGC|AGGAGAT|ACTG|CTT|GGG|CAG|CCG|ACG|GAAT|GGTCT|CCA|AGGGG|TGAGG|TTGCT| 3418
Query 3419 |GGCG|CCAT|ACAG|CGGT|ACGCC|AGC|AGAC|GAG|AGG|CCT|CCT|AGGG|TGATA|ATC|ACC|AG| 3478
Sbjct 3419 |GGCG|CCAT|ACAG|CGGT|ACGCC|AGC|AGAC|GAG|AGG|CCT|CCT|AGGG|TGATA|ATC|ACC|AG| 3478
Query 3479 |CCTG|ACT|GGC|CGG|GACAAA|ACCA|AGTGG|AGGGT|GAGT|CCAG|ATCGT|GTCA|ACT|GCT|AC| 3538
Sbjct 3479 |CCTG|ACT|GGC|CGG|GACAAA|ACCA|AGTGG|AGGGT|GAGT|CCAG|ATCGT|GTCA|ACT|GCT|AC| 3538
Query 3539 |CCAA|ACCTT|CTCT|GGCA|ACGTGCAT|CAAT|GGGGT|ATGCT|GAG|CTGTCT|ACC|ACGGG|CGCG| 3598
Sbjct 3539 |CCAA|ACCTT|CTCT|GGCA|ACGTGCAT|CAAT|GGGGT|ATGCT|GAG|CTGTCT|ACC|ACGGG|CGCG| 3598
Query 3599 |AACG|AGG|ACCAT|CGCAT|CACC|CAAGGGT|CCTGTCAT|CCAGATGTAT|ACCAAT|GTG|GACCA| 3658
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Sbjct 3599 AACGAGGACCATCGCATCACCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCA 3658
Query 3659 AGACCTTGTGGGTGGCCCGCTCTCAAGGTTCCCGCTCATTTGACACCTGTACCTGCGG 3718
Sbjct 3659 AGACCTTGTGGGTGGCCCGCTCTCAAGGTTCCCGCTCATTTGACACCTGTACCTGCGG 3718
Query 3719 CTCTCGGACCTTTTACCTGGTCACGAGGACGCGGATGTTCATCCCGTGCGCCGGCGAGG 3778
Sbjct 3719 CTCTCGGACCTTTTACCTGGTTACGAGGACGCGGAGCTTCATCCCGTGCGCCGGCGAGG 3778
Query 3779 TGATAGCAGGGGTAGCCTGCTTTTCGCCCGCGGCCATTTCTTACTTGAAAGGCTCCTCGG 3838
Sbjct 3779 TGATAGCAGGGGTAGCCTGCTTTTCGCCCGCGGCCATTTCTTACTTAAAGGCTCCTCGG 3838
Query 3839 GGGTCCGCTGTTGTGGCCCGCGGACACGCCGTGGGCTTATCAGGCGCGGTTGTCAC 3898
Sbjct 3839 GGGTCCGCTGTTGTGGCCCGCGGACACGCCGTGGGCTTATCAGGCGCGGTTGTCAC 3898
Query 3899 CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCTCTGGGAGAACTAGGGACAACCATGAG 3958
Sbjct 3899 CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCTCTGGGAGAACTAGAGACAACCATGAG 3958
Query 3959 ATCCCCGGTGTTCACGGACAACCTCTCTCCACGACGAGTCCCCAGAGCTTCCAGGTGGC 4018
Sbjct 3959 ATCCCCGGTGTTCACGGACAACCTCTCTCCACGACGAGTCCCCAGAGCTTCCAGGTGGC 4018
Query 4019 CCACCTGCATGCTCCACCGGACGGTAAGAGCACCAAGGTCGGGTGCGTACGACG 4078
Sbjct 4019 CCACCTGCATGCTCCACCGGACGGTAAGAGCACCAAGGTCGGGTGCGTACGACG 4078
Query 4079 CAGGGCTACAAAGGTGTTGGTGCTCAACCCCTCTGTGTGCTGCAACGCTGGGCTTTGGTGC 4138
Sbjct 4079 CAGGGCTACAAAGGTGTTGGTGCTCAACCCCTCTGTGTGCTGCAACGCTGGGCTTTGGTGC 4138
Query 4139 TTACATGTCCAAGGCCATGGGGTGTATCCTAATAACAGGACCGGGTGAGAACAAATTAC 4198
Sbjct 4139 TTACATGTCCAAGGCCATGGGGTGTATCCTAATAACAGGACCGGGTGAGAACAAATTAC 4198
Query 4199 CACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGGCAGCGCGGGTGCTC 4258
Sbjct 4199 CACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGGCAGCGCGGGTGCTC 4258
Query 4259 AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGGCACTCCACGGATGCCATCCAT 4318
Sbjct 4259 AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGGCACTCCACGGATGCCATCCAT 4318
Query 4319 CTTGGGCATCGGCACGTGCTTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT 4378
Sbjct 4319 CTTGGGCATCGGCACGTGCTTTGACCAAGCAGAGACTGCGGGGGCGAGATTGGTTGTGCT 4378
Query 4379 CGCCACTGCTACCCCTCCGGGCTCCGTCAGTGTGTCCTCCTAACATCGAGGAGGTGCG 4438
Sbjct 4379 CGCCACTGCTACCCCTCCGGGCTCCGTCAGTGTGTCCTCCTAACATCGAGGAGGTGCG 4438
Query 4439 TCTGTCCACCACCGGAGAGATCCCTTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCA 4497
Sbjct 4439 TCTGTCCACCACCGGAGAGATCCC-TTTCACGGCAAGGCTATCCCCCTCGAGGTGATCA 4497
Query 4498 AGGGGGGAAGACATCTCATCTTCTGCGCATCAAGAAGAAGTGCGACGAGCTCGCCGCGA 4557
Sbjct 4498 AGGGGGGAAGACATCTCATCTTCTGTCATCAAGAAGAAGTGCGACGAGCTCGCCGCGA 4557
Query 4558 AGCTGGTGCATTGGGCATCAATGCCGTGGCTTACTACCGCGGTCTTGACGTGTCTGTCA 4617
Sbjct 4558 AGCTGGTGCATTGGGCATCAATGCCGTGGCTTACTACCGCGGACTTGACGTGTCTGTCA 4617
Query 4618 TCCCGACAGCGCGCATGTTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCG 4677
Sbjct 4618 TCCCGACCAACGCGCATGTTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCG 4677
Query 4678 GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCC 4737
Sbjct 4678 GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCC 4737
Query 4738 TTGACCTTACCTTTACCATTTAGACACAACACGCTCCCCAGGATGCTGTCTCCAGGACTC 4797
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Sbjct 4738 |TTGACCCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTC| 4797
Query 4798 |AACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGG| 4857
Sbjct 4798 |AGCGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTGTGGCACCGGGG| 4857
Query 4858 |AGCGCCCTCCGCGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTG| 4917
Sbjct 4858 |AGCGCCCTCCGCGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTG| 4917
Query 4918 |CTTGATATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC| 4977
Sbjct 4918 |CTTGATATGAGCTCATGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC| 4977
Query 4978 |CGGGGCTTCCGTTGTGCCAGGACCATCTTGAATTTTGGGAGGCGTCTTTACGGGCTCA| 5037
Sbjct 4978 |CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGCGTCTTTACGGGCTCA| 5037
Query 5038 |CTCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTTCCCTACC| 5097
Sbjct 5038 |CCCATATAGATGCCCACTTTCTATCCAGACAAAGCAGAGTGGGGAGAACTTTCCCTACC| 5097
Query 5098 |TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACC| 5157
Sbjct 5098 |TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACC| 5157
Query 5158 |AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCCTCCATGGGCCAACCCCTGCTAT| 5217
Sbjct 5158 |AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCCTCCATGGGCCAACCCCTGCTAT| 5217
Query 5218 |ACAGACTGGGCGTGTTTCAAGATGAAGTCAACCTGACGCACCCCAATCACCAAATACATCA| 5277
Sbjct 5218 |ACAGACTGGGCGTGTTTCAAGATGAAGTCAACCTGACGCACCCCAATCACCAAATACATCA| 5277
Query 5278 |TGACATGCATGTGCGGCCACCTGGAGTGTGTCACGAGCACTGGGTGTCGTTGGCGGGG| 5337
Sbjct 5278 |TGACATGCATGTGCGGCCACCTGGAGTGTGTCACGAGCACTGGGTGTCGTTGGCGGGG| 5337
Query 5338 |TCTTGGCTGCTCTGGCCCGTATTGCCGTGTCAACAGGTCGCTGGTCAATAGTGGGCAGGA| 5397
Sbjct 5338 |TCTTGGCTGCTCTGGCCCGTATTGCCGTGTCAACAGGTCGCTGGTCAATAGTGGGCAGGA| 5397
Query 5398 |TCGCTTTGTCCGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTTCG| 5457
Sbjct 5398 |TTGCTTTGTCCGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTTCG| 5457
Query 5458 |ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCAGCAAGGGATGATGCTCGCTG| 5517
Sbjct 5458 |ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCAGCAAGGGATGATGCTCGCTG| 5517
Query 5518 |AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCGCCATCGAGAGGTTA| 5577
Sbjct 5518 |AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCGCCATCGAGAGGTTA| 5577
Query 5578 |TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCAGATGT| 5637
Sbjct 5578 |TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCAGATGT| 5637
Query 5638 |GGAATTTTCACTAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCG| 5697
Sbjct 5638 |GGAATTTTCACTAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCG| 5697
Query 5698 |CAATTGCTTCATTGATGGCTTTTACAGCTGCGCTCACCAGCCCACTAACCAGTGGCCAAA| 5757
Sbjct 5698 |CAATTGCTTCATTGATGGCTTTTACAGCTGCGCTCACCAGCCCACTAACCAGTGGCCAAA| 5757
Query 5758 |CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG| 5817
Sbjct 5758 |CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG| 5817
Query 5818 |CTACTGCCTTTTGGGGTGTGGCTAGCTGGCGCCGCCATCGGACGCGTTGGACTGGGGA| 5877
Sbjct 5818 |CTACCGCCTTTTGGGGCTGGCTAGCTGGCGCCGCCATCGGACGCGTTGGACTGGGGA| 5877
Query 5878 |AGGTCTCTGGACATTCTTGCAGGGTATGGCGGGGCTGGCGGGAGCTCTTGTAGCAT| 5937

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Sbjct	5878	AGGTCCTCGTGGACATTTCTTGACAGGATATGGCGCGCGTGGCGGGAGCTCTTGATGACAT	5937
Query	5938	TCAAGATCATAGACGGGTGAGGTCCCTCCACGGAGGAGCTGGTCAATCTGCTGCCGCCCA	5997
Sbjct	5938	TCAAGATCATAGACGGGTGAGGTCCCTCCACGGAGGAGCTGGTCAATCTGCTGCCGCCCA	5997
Query	5998	TCCTCTCGCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCGGGCAGC	6057
Sbjct	5998	TCCTCTCGCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCGGGCAGC	6057
Query	6058	TTGGCCCGGGCAGGGGGCAGTGCAATGGATGAACCGCTAATAGCCTTCGCTCCCGGG	6117
Sbjct	6058	TTGGCCCGGGCAGGGGGCAGTGCAATGGATGAACCGCTAATAGCCTTCGCTCCCGGG	6117
Query	6118	GGAAACCATGTTTCCCCCAGCAGCTACGTGCCGAGAGCGATGACAGCGCCCGCTCACTG	6177
Sbjct	6118	GGAAACCATGTTTCCCCCAGCAGCTACGTGCCGAGAGCGATGACAGCGCCCGCTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Query	6238	CGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	CGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCTGGGA	6357
Sbjct	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCTGGGA	6357
Query	6358	TTCCCTTTGTGTCCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGC	6417
Sbjct	6358	TTCCCTTTGTGTCCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGC	6417
Query	6418	ACACTCGCTGGAGCTGTGGAGCTGAGATCACTGGACATGCAAAACGGGACATGAGGA	6477
Sbjct	6418	ACACTCGCTGGAGCTGTGGAGCTGAGATCACTGGACATGCAAAACGGGACATGAGGA	6477
Query	6478	TCGTGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGCTCCCCATTAAACGCTTACA	6537
Sbjct	6478	TCGTGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGCTCCCCATTAAACGCTTACA	6537
Query	6538	CCACGGGCCCCGTACTCCCCCTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGT	6597
Sbjct	6538	CCACGGGCCCCGTACTCCCCCTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGT	6597
Query	6598	CTGCAGAGGAATACGTGGAGATAAAGCGGGGTGGGGGACTTCACATACGTATCGGGTATGA	6657
Sbjct	6598	CTGCAGAGGAATACGTGGAGATAAAGCGGGGTGGGGGACTTCACATACGTATCGGGTATGA	6657
Query	6658	CTACTGACAATCTTAAATGCCCGTGCAGATCCCATGCCCGAATTTTTCACAGAATTGG	6717
Sbjct	6658	CTACTGACAATCTTAAATGCCCGTGCAGATCCCATGCCCGAATTTTTCACAGAATTGG	6717
Query	6718	ACGGGGTGGCCCTACACAGGTTTGGCGCCCTTTCGACGCCCTTGCTGCGGGAGGAGGTAT	6777
Sbjct	6718	ACGGGGTGGCCCTACATAGGTTTGGCGCCCTTTCGACGCCCTTGCTGCGGGAGGAGGTAT	6777
Query	6778	CATTCAGATAGGACTCCACAGTATACCGGTGGGGTCGCAATTACCTTGCAGAGCCGGAAC	6837
Sbjct	6778	CATTCAGATAGGACTCCACAGTATACCGGTGGGGTCGCAATTACCTTGCAGAGCCGGAAC	6837
Query	6838	CGGACGTAGCCGTGTGTACGTCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGG	6897
Sbjct	6838	CGGACGTAGCCGTGTGTACGTCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGG	6897
Query	6898	CCGGGAGAAGGTTGGCGAGAGGGTCAACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGC	6957
Sbjct	6898	CCGGGAGAAGGTTGGCGAGAGGGTCAACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGC	6957
Query	6958	TGTCGGCTCATCTCTCAAGGCAACTTGCACCCGCAACATCACTCCCTGACGCCGAGC	7017
Sbjct	6958	TGTCGGCTCATCTCTCAAGGCAACTTGCACCCGCAACATCACTCCCTGACGCCGAGC	7017
Query	7018	TCATAGAGGCTAACCCTCTGTGGAGGCAAGAGATGGCGGGCAACATCACCAGGGTTGAGT	7077

Sbjct	7018	TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGCAACATCACCAGGGTTGAGT	7077
Query	7078	CAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC	7137
Sbjct	7078	CAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC	7137
Query	7138	GGGAGGTCTCCGTACCTGCGAAATTTCTCGGAAGTCTCGGAGATTGCCCGGGCCCTGC	7197
Sbjct	7138	GGGAGGTCTCCGTACCTGCGAAATTTCTCGGAAGTCTCGGAGATTGCCCGGGCCCTGC	7197
Query	7198	CCGTCTGGGCGGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAGAACCGCTGACT	7257
Sbjct	7198	CCGTTTGGGCGGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAGAACCGCTGACT	7257
Query	7258	ACGAACACCTGTGGTTCATGGCTGCGCCGTACCACTCCAGGTCCTCTGTGCTCTC	7317
Sbjct	7258	ACGAACACCTGTGGTTCATGGCTGCGCCGTACCACTCCAGGTCCTCTGTGCTCTC	7317
Query	7318	CGCCTCGGAAAAAGCGTACGGTGGTCTCACCAGATCAACCTATCTACTGCCTTGGCCG	7377
Sbjct	7318	CGCCTCGGAAAAAGCGTACGGTGGTCTCACCAGATCAACCTATCTACTGCCTTGGCCG	7377
Query	7378	AGCTTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCGGCATTACGGGCGACAATACGA	7437
Sbjct	7378	AGCTTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCGGCATTACGGGCGACAATACGA	7437
Query	7438	CAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCGACTCCGACGTTGAGTCTATT	7497
Sbjct	7438	CAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCGACTCCGACGTTGAGTCTATT	7497
Query	7498	CTTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTGATGTT	7557
Sbjct	7498	CTTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTGATGTT	7557
Query	7558	CGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATCTCT	7617
Sbjct	7558	CGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATACCT	7617
Query	7618	GGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAAATGCCCATCAACGCAC	7677
Sbjct	7618	GGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAAATGCCCATCAACGCAC	7677
Query	7678	TGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCATTTCACGCAGTGCCT	7737
Sbjct	7678	TGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCATTTCACGCAGTGCCT	7737
Query	7738	GCCAAAGGCAGAGAAGTACATTGTGACAGACTGCAAGTTCTGGACAGCCATTACCAGG	7797
Sbjct	7738	GCCAAAGGCAGAGAAGTACATTGTGACAGACTGCAAGTTCTGGACAGCCATTACCAGG	7797
Query	7798	ACGTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAAAGTGAAGGCTAACTTGCTATCCGTAG	7857
Sbjct	7798	ACGTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAAAGTGAAGGCTAACTTGCTATCCGTAG	7857
Query	7858	AGGAAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAA	7917
Sbjct	7858	AGGAAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAA	7917
Query	7918	AAGAGCTCCGTTGCCATGCCAGAAAGCCGTAGCCCAATCAACTCCGTGTGGAAGACC	7977
Sbjct	7918	AAGAGCTCCGTTGCCATGCCAGAAAGCCGTAGCCCAATCAACTCCGTGTGGAAGACC	7977
Query	7978	TCTTGAAGACAGTGTAAACACCAATAGACACTATCATCATGGCCAGAACAGAGGTTTCT	8037
Sbjct	7978	TCTTGAAGACAGTGTAAACACCAATAGACACTATCATCATGGCCAGAACAGAGGTTTCT	8037
Query	8038	CGGTTACGCTTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCGACTGG	8097
Sbjct	8038	CGGTTACGCTTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCGACTGG	8097
Query	8098	CGGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCG	8157
Sbjct	8098	CGGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCCCTGGCCG	8157
Query	8158	TGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTGTGC	8217

Sbjct	8158	TGATGGGAAGCTCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGC	8217
Query	8218	AAGCGTGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACC6CGTGTTTGACT	8277
Sbjct	8218	AAGCGTGAAGTCCAAGAAGACCCGATGGGGTTCCCGTATGATACC6CGTGTTTGACT	8277
Query	8278	CCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTACCTGG	8337
Sbjct	8278	CCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTACCTGG	8337
Query	8338	ACCCCCAAGCCCGGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTC	8397
Sbjct	8338	ACCCCCAAGCCCGGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTC	8397
Query	8398	TTACCAATTTCAAGGGGGGAAAAATCGCGCTACCGCAGGTGCCGCGGAGCGCGCTACTGA	8457
Sbjct	8398	TTACCAATTTCAAGGGGGGAAAAATCGCGCTATCGCAGGTGCCGCGGAGCGCGCTACTGA	8457
Query	8458	CAACTAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCGTGTGAGCCG	8517
Sbjct	8458	CAACTAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCGCGTGTGAGCCG	8517
Query	8518	CAGGGTCCAGGACTGCACCATGCTCTGTGTGGCGAGCACTTAGTCGTTATCTGTGAAA	8577
Sbjct	8518	CAGGGTCCAGGACTGCACCATGCTCTGTGTGGCGAGCACTTAGTCGTTATCTGTGAAA	8577
Query	8578	GTGCGGGGTCCAGGAGGACGCGCGGAGCCTGAGAGCCTTACGAGGGCTATGACCAGGT	8637
Sbjct	8578	GTGCGGGGTCCAGGAGGACGCGCGGAGCCTGAGAGCCTTACGAGGGCTATGACCAGGT	8637
Query	8638	ACTCCGcccccccgggggaacccccACAACCAAGATACGACTTGGAGCTTATAACATCAT	8697
Sbjct	8638	ACTCCGcccccccgggggaacccccACAACCAAGATACGACTTGGAGCTTATAACATCAT	8697
Query	8698	GCTCCTTCAACGTTGTCAGTCGCCACACGCGCGTGGAAAAGGGCTTACTACTTACCC	8757
Sbjct	8698	GCTCCTTCAACGTTGTCAGTCGCCACACGCGCGTGGAAAAGGGCTTACTACTTACCC	8757
Query	8758	GTGACCTTACAACCCCTTCGGGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCA	8817
Sbjct	8758	GTGACCTTACAACCCCTTCGGGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCA	8817
Query	8818	ATTCTTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCAGGATGATACTGA	8877
Sbjct	8818	ATTCTTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCAGGATGATACTGA	8877
Query	8878	TGACCCATTTCCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGTG	8937
Sbjct	8878	TGACCCATTTCCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGTG	8937
Query	8938	AGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACTTCAATCATTTCAAAGAC	8997
Sbjct	8938	AGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACTTCAATCATTTCAAAGAC	8997
Query	8998	TCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGG	9057
Sbjct	8998	TCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGG	9057
Query	9058	CCGCATGCTTCAGAAAATTTGGGGTCCCGCCCTTGCAGAGCTGGAGACACCGGGCCCGGA	9117
Sbjct	9058	CCGCATGCTTCAGAAAATTTGGGGTCCCGCCCTTGCAGAGCTGGAGACACCGGGCCCGGA	9117
Query	9118	GCGTCGCGCTTAGGCTTCTGTGCCAGGAGGCGAGGCTGCCATATGTGGCAAGTACCTCT	9177
Sbjct	9118	GCGTCGCGCTTAGGCTTCTGTGCCAGGAGGCGAGGCTGCCATATGTGGCAAGTACCTCT	9177
Query	9178	TCAACTGGGCGAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGGCTGG	9237
Sbjct	9178	TCAACTGGGCGAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGGCTGG	9237
Query	9238	ACTTGTCCGGTTGGTTTCAAGCTTGCTACAGCGGGGGAGACATTTACACAGCGTGTCTC	9297
Sbjct	9238	ACTTGTCCGGTTGGTTTCAAGCTTGCTACAGCGGGGGAGACATTTACACAGCGTGTCTC	9297
Query	9298	ATGCGCGGGCCCGGTGGTTCTGGTTTGGCTACTCTCTGCTCGCTGAGGGGTAGGCATCT	9357

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Sbjct  9298  |||||ATGCCCGCCCCGCTGGTTCGGTTTGGCTACTCTGCTCGTCGACGGGTAGGCATCT 9357
Query   9358  ACCTCCTCCCAACCGATGAAGGTTGGGGTAAACACTCC--GGCC 9400
Sbjct  9358  |||||ACCTCCTCCCAACCGGTGAAGATTGGGTAAACACTCCAGGCC 9401

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>gb|EA263018.1| Sequence 19 from patent US 7235394
Length=9416

Score = 1.688e+04 bits (9142), Expect = 0.0
Identities = 9318/9404 (99%), Gaps = 7/9404 (0%)
Strand=Plus/Plus

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Query    1  GCCAGCCCCCTGATGGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAAGTACT 59
Sbjct    1  GCCAGCCCCCTGATGGGGGCGACACTCCACCAT-AGATCACTCCCCTGTGAGGAAGTACT 59
Query   60  GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCCTCAGGA 119
Sbjct   60  GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCCTCAGGA 119
Query  120  cccccccTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA 179
Sbjct  120  CCCCCCTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA 179
Query  180  GGACGACCGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC 239
Sbjct  180  GGACGACCGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC 239
Query  240  CGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAG 299
Sbjct  240  CGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAG 299
Query  300  GGTGCTTGCGAGTGCCCCGGGAGGTCTCTGTAGACCGTGCACCATGAGCACGAATCCTAAA 359
Sbjct  300  GGTGCTTGCGAGTGCCCCGGGAGGTCTCTGTAGACCGTGCACCATGAGCACGAATCCTAAA 359
Query  360  CCTCAAGAAAAACCAACGTAACACCAACCGTCGCCCCACAGGACGTCAAGTTCCCCGGGT 419
Sbjct  360  CCTCAAGAAAAACCAACGTAACACCAACCGTCGCCCCACAGGACGTGAGTTCCCCGGGT 419
Query  420  GGCGGTTCAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGGCCCTAGATTGGGTGTG 479
Sbjct  420  GGCGGTTCAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGGCCCTAGATTGGGTGTG 479
Query  480  CGCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTGAGCCCTATCCCC 539
Sbjct  480  CGCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGTGGTAGACGTGAGCCCTATCCCC 539
Query  540  AAGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCCTTGCCCCCTCTAT 599
Sbjct  540  AAGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCCTTGCCCCCTCTAT 599
Query  600  GGCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCATAGC 659
Sbjct  600  GGCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCATAGC 659
Query  660  TGGGGCCCCACAGACCCCGCGTAGGTGCGGCAATTTGGGTAAAGTTCATCGATACCCCT 719
Sbjct  660  TGGGGCCCCACAGACCCCGCGTAGGTGCGGCAATTTGGGTAAAGTTCATCGATACCCCT 719
Query  720  ACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGCGGCCCTCTTGGAGGC 779
Sbjct  720  ACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGCGGCCCTCTTGGAGGC 779
Query  780  GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAATATGAACA 839
Sbjct  780  GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAATATGAACA 839
Query  840  GGGAACTTCTCGGTGTCTTTCTCTATCTTCTTCTGCGCCCTGCTCTTGCCTGACT 899
Sbjct  840  GGGAACTTCTCGGTGTCTTTCTCTATCTTCTTCTGCGCCCTGCTCTTGCCTGACT 899
Query  900  GTGCCCGCTTCAGCTACCAAGTGCCAATTCTCGGGGCTTACCATGTACCAATGAT 959

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Sbjct 900      GTGCCCCGCTTACGCTTACCAAGTGCGAATTCCTCGGGGCTTTACCATGTCACCAATGAT 959
Query 960      TGCCTTAACCTGAGTATTGTGTACGAGGCGGCCGATGCCATCTCGCACTCCGGGGTGT 1019
Sbjct 960      TGCCTTAATTCGAGTATTGTGTACGAGGCGGCCGATGCCATCTCGCACTCCGGGGTGT 1019
Query 1020     GTCCCTTGCCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCACAGGTG 1079
Sbjct 1020     GTCCCTTGCCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCACAGGTG 1079
Query 1080     GCCACCAAGGAGCGGCAAACTCCCAACAACGCGAGCTTCGAGCTCATATCGATCTGCTTGT 1139
Sbjct 1080     GCCACCAAGGAGCGGCAAACTCCCAACAACGCGAGCTTCGAGCTCATATCGATCTGCTTGT 1139
Query 1140     GGGAGCGGCACCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTCTTCT 1199
Sbjct 1140     GGGAGCGGCACCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTCTTCT 1199
Query 1200     GTTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAA-GACTGCAATTG 1258
Sbjct 1200     GTTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAAG-CTGCAATTG 1258
Query 1259     TTCTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAAGT 1318
Sbjct 1259     TTCTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAAGT 1318
Query 1319     GTCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGA 1378
Sbjct 1319     GTCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGA 1378
Query 1379     CATGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTCTCCATGGTGGG 1438
Sbjct 1379     CATGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTCTCCATGGTGGG 1438
Query 1439     GAACTGGGCGAAGGTCTCGGTAGTGTGCTGCTATTGTCGGCGCTCGACGCGGAACCCA 1498
Sbjct 1439     GAACTGGGCGAAGGTCTCGGTAGTGTGCTGCTATTGTCGGCGCTCGACGCGGAACCCA 1498
Query 1499     CGTCACCGGGGGAATGCCGGCCGACACCGGCTGGGCTTGTGGTCTCCTTACACCAGG 1558
Sbjct 1499     CGTCACCGGGGGAAGTGCCGGCCACACACCGGCTGGGCTTGTGGTCTCCTTACACCAGG 1558
Query 1559     GCCTAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGG 1618
Sbjct 1559     GCCTAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGG 1618
Query 1619     CTGAAATTGCAATGAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACAA 1678
Sbjct 1619     CTGAAATTGCAACGATAGCCTTACCACCGGCTGGTTAGCAGGGCTCTTCTATCGCCAA 1678
Query 1679     ATTCAACTCTTACAGGCTGTCTGAGAGGTTGGCCAGCTGCCACGCGCTTACCGATTTCG 1738
Sbjct 1679     ATTCAACTCTTACAGGCTGTCTGAGAGGTTGGCCAGCTGCCACGCGCTTACCGATTTCG 1738
Query 1739     CCAGGGCTGGGGTCTATCAGTTATGCCCAACGGAAGCGGCTCGACGAACGCCCTACTG 1798
Sbjct 1739     CCAGGGCTGGGGTCCCATCAGTTATGCCCAACGGAAGCGGCTTACGAACGCCCTACTG 1798
Query 1799     CTGGCACTACCTCCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGGCCCGGT 1858
Sbjct 1799     TTGGCACTACCTCCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGGCCCGGT 1858
Query 1859     ATATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACGAGGTGGGCGCGCCTAC 1918
Sbjct 1859     ATATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACGAGGTGGGCGCGCCTAC 1918
Query 1919     CTACAGCTGGGGTGCAAAATGATACGGATGTCCTCGTCTTAAACAACACAGGCCACCGCT 1978
Sbjct 1919     CTACAGCTGGGGTGCAAAATGATACGGATGTCCTCGTCTTAAACAACACAGGCCACCGCT 1978
Query 1979     GGGCAATTGGTTCGGTGTGACTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGC 2038
Sbjct 1979     GGGCAATTGGTTCGGTGTGACTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGC 2038
Query 2039     GCCCCCTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCACTGATTGCTT 2098
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Sbjct 2039  |GCCCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGTCTGCCCCACTGATTGCTT| 2098
Query 2099  |CCGCAAAACATCCGGAAGCCACATACTCTCGGTGCGGGCTCGGTCCTCGATTACACCCAG| 2158
Sbjct 2099  |CCGCAAAACATCCGGAAGCCACATACTCTCGGTGCGGGCTCGGTCCTCGATTACACCCAG| 2158
Query 2159  |GTGCATGGTGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT| 2218
Sbjct 2159  |GTGCATGGTGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT| 2218
Query 2219  |ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG| 2278
Sbjct 2219  |ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG| 2278
Query 2279  |GACCGGGGGGCAAGCGCTGTGATCTGGAAGACAGGACAGGTCGAGCTCAGCCGTTGCT| 2338
Sbjct 2279  |GACCGGGGGGCAAGCGCTGTGATCTGGAAGACAGGACAGGTCGAGCTCAGCCGTTGCT| 2338
Query 2339  |GCTGTCCACACACAGTGGCAGGTCCCTCCGTGTTCTTTCACGACCTGCCAGCCCTTGTG| 2398
Sbjct 2339  |GCTGTCCACACACAGTGGCAGGTCCCTCCGTGTTCTTTCACGACCTGCCAGCCCTTGTG| 2398
Query 2399  |CACC GGCTCATCCACCTCCACCAGAACATTGTGGAGTGCAGTACTTGTACGGGGTAGG| 2458
Sbjct 2399  |CACC GGCTCATCCACCTCCACCAGAACATTGTGGAGTGCAGTACTTGTACGGGGTAGG| 2458
Query 2459  |GTCAAGCATCGCGTCTCGGGCCATTAAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCT| 2518
Sbjct 2459  |GTCAAGCATCGCGTCTCGGGCCATTAAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCT| 2518
Query 2519  |TGCAGACGCGCGGCTGTGCTCTGCTTTGGGATGATGTTACTCATATCCAAGCGGAGGC| 2578
Sbjct 2519  |TGCAGACGCGCGGCTGTGCTCTGCTTTGGGATGATGTTACTCATATCCAAGCGGAGGC| 2578
Query 2579  |GGCTTTTGAGAACTCGTAATACTCAATGCAGCATCCCTGGCGGGAGCGACGGTCTTGT| 2638
Sbjct 2579  |GGCTTTTGAGAACTCGTAATACTCAATGCAGCATCCCTGGCGGGAGCGACGGTCTTGT| 2638
Query 2639  |GTCCCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGC| 2698
Sbjct 2639  |GTCCCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGC| 2698
Query 2699  |GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCCTCAGG| 2758
Sbjct 2699  |GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCCTCAGG| 2758
Query 2759  |GGCATACGCACCTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGGGTT| 2818
Sbjct 2759  |GGCATACGCACCTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGGGTT| 2818
Query 2819  |AATGGCGTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT| 2878
Sbjct 2819  |AATGGCGTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT| 2878
Query 2879  |TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCAGTGTGGGTTTCAACGTTCAACGT| 2938
Sbjct 2879  |TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCAGTGTGGGTTTCCCCCTTCAACGT| 2938
Query 2939  |CCGGGGGGGGCGGATGCGGTCACTTACTCATGTGTGTAGTACACCGACCTTGTGATT| 2998
Sbjct 2939  |CCGGGGGGGGGGCGGATGCGGTCACTTACTCATGTGTGTGTACACCGACTCTGTGATT| 2998
Query 2999  |TGACATACCAAACCTACTCCTGGCCATCTTCGAGCCCTTTGGATTCTTCAAGCCAGTTT| 3058
Sbjct 2999  |TGACATACCAAACCTACTCCTGGCCATCTTCGAGCCCTTTGGATTCTTCAAGCCAGTTT| 3058
Query 3059  |GCTTAAAGTCCCTACTTCTGTCGCGCTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGG| 3118
Sbjct 3059  |GCTTAAAGTCCCTACTTCTGTCGCGCTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGG| 3118
Query 3119  |GAAGATAGCCGGAGGTCATTACGTGCAATGGCCATCATCAAGTTAGGGGCGCTTACTGG| 3178
Sbjct 3119  |GAAGATAGCCGGAGGTCATTACGTGCAATGGCCATCATCAAGTTAGGGGCGCTTACTGG| 3178
Query 3179  |CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACACGCGCTGCGAGA| 3238

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Sbjct 3179 CACCTATGTGTATAACCATCTCACCCCTCTTCAGAGCTGGGCGCACACCGCCTGCGAGA 3238
Query 3239 TCTGGCCGTGGCTGTGGAAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG 3298
Sbjct 3239 TCTGGCCGTGGCTGTGGAAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG 3298
Query 3299 GGGGGCAGATACCGCCGCGTGCCTGACATCATCAACGGCTTGCCTGCTCTGCCCCGTAG 3358
Sbjct 3299 GGGGGCAGATACCGCCGCGTGCCTGACATCATCAACGGCTTGCCTGCTCTGCCCCGTAG 3358
Query 3359 GGGCCAGGAGATACTGCTTGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGTTGCT 3418
Sbjct 3359 GGGCCAGGAGATACTGCTTGGACAGCCGACGGAATGGTCTCCAAGGGGTGGAGTTGCT 3418
Query 3419 GGCGCCCATACGGCGTACGCCAGCAGACGAGAGGCTCTTAGGGTGATAATCACCAG 3478
Sbjct 3419 GGCGCCCATACGGCGTACGCCAGCAGACGAGAGGCTCTTAGGGTGATAATCACCAG 3478
Query 3479 CTTGACTGGCCGGGACAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTAC 3538
Sbjct 3479 CTTGACTGGCCGGGACAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTAC 3538
Query 3539 CCAAACCTTCTTGCCACAGTGCATCAATGGGGTATGCTGAGCTGTCTACCACGGGGCCGG 3598
Sbjct 3539 CCAAACCTTCTTGCCACAGTGCATCAATGGGGTATGCTGAGCTGTCTACCACGGGGCCGG 3598
Query 3599 AACGAGGACCATCGCATCACCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCA 3658
Sbjct 3599 AACGAGGACCATCGCATCACCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCA 3658
Query 3659 AGACCTTGTGGGTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGG 3718
Sbjct 3659 AGACCTTGTGGGTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGG 3718
Query 3719 CTCTCGGACCTTTAAGTGGTACGAGGACGCGGAGTGTCAATCCCGTGCAGCGGGGAGG 3778
Sbjct 3719 CTCTCGGACCTTTAAGTGGTACGAGGACGCGGAGTGTCAATCCCGTGCAGCGGGGAGG 3778
Query 3779 TGATAGCAGGGGTAGCCTGCTTTCGCCCGGGCCATTTCCTAGTTGAAAGGCTCCTCGGG 3838
Sbjct 3779 TGATAGCAGGGGTAGCCTGCTTTCGCCCGGGCCATTTCCTAGTTGAAAGGCTCCTCGGG 3838
Query 3839 GGGTCCGCTGTGTGCCCCGCGGACACGCGTGGGCTATTACGGGCGCGGTGTGCAC 3898
Sbjct 3839 GGGTCCGCTGTGTGCCCCGCGGACACGCGTGGGCTATTACGGGCGCGGTGTGCAC 3898
Query 3899 CGGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACTTAGGACAACCATAG 3958
Sbjct 3899 CGGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACTTAGGACAACCATAG 3958
Query 3959 ATCCCGGTGTTCACGGACAACCTCCTCTCCACGACAGTGCCTCAGAGCTTCCAGGTGCG 4018
Sbjct 3959 ATCCCGGTGTTCACGGACAACCTCCTCTCCACGACAGTGCCTCAGAGCTTCCAGGTGCG 4018
Query 4019 CCACCTGCATGCTCCACCGCAGCGGTAAGAGCACCAAGGTCCTGCGTACGACG 4078
Sbjct 4019 CCACCTGCATGCTCCACCGCAGTGGTAAGAGCACCAAGGTCCTGCGTACGACG 4078
Query 4079 CAGGGGTACAAAGGTGTGGTGCTCAACCCCTCTGTGCTGCAACGCTGGGCTTTGGTGC 4138
Sbjct 4079 CAGGGGTACAAAGGTGTGGTGCTCAACCCCTCTGTGCTGCAACGCTGGGCTTTGGTGC 4138
Query 4139 TTACATGTCCAAGGCCATGGGGTGTATCCTAATATCAGGACCGGGGTGAGAACCAATTAC 4198
Sbjct 4139 TTACATGTCCAAGGCCATGGGGTGTATCCTAATATCAGGACCGGGGTGAGAACCAATTAC 4198
Query 4199 CACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGGCAGCGCGGGTGCTC 4258
Sbjct 4199 CACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGGCAGCGCGGGTGCTC 4258
Query 4259 AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCTCCACGGATGCCACATCCAT 4318
Sbjct 4259 AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCTCCACGGATGCCACATCCAT 4318
Query 4319 CTTGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGGGGGGCAGAGCTGGTTGTGCT 4378

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Sbjct 4319 |TTGGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGATTGGTTGTGCT| 4378
Query 4379 |CGCCACTGCTACCCCTCCGGGCTCCGTCAGTGTGTCCCATCTCTAACATCGAGGAGGTTCG| 4438
Sbjct 4379 |CGCCACTGCTACCCCTCCGGGCTCCGTCAGTGTGTCCCATCTCTAACATCGAGGAGGTTCG| 4438
Query 4439 |TCTGTCCACCACCGGAGAGATCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCA| 4497
Sbjct 4439 |TCTGTCCACCACCGGAGAGATCCC-TTCTACGGCAAGGCTATCCCCCTCGAGGTGATCA| 4497
Query 4498 |AGGGGGGAAGACATCTCATCTTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGA| 4557
Sbjct 4498 |AGGGGGGAAGACATCTCATCTTTCTGTCTACTCAAAGAAGAAGTGCACGAGCTCGCCGCGA| 4557
Query 4558 |AGCTGGTGCATTGGGCATCAATGCCGTGGCTACTACCCGGCTCTTGACGTGTCGTCA| 4617
Sbjct 4558 |AGCTGGTGCATTGGGCATCAATGCCGTGGCTACTACCCGGCTCTTGACGTGTCGTCA| 4617
Query 4618 |TCCCAGCAGCGCGATGTTGTCTGTGTGTCGACCGATGCTCTCATGACTGGCTTTACCG| 4677
Sbjct 4618 |TCCCAGCAGCGCGATGTTGTCTGTGTGTCGACCGATGCTCTCATGACTGGCTTTACCG| 4677
Query 4678 |GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCAGTCTGACAGTCGATTTCAGCC| 4737
Sbjct 4678 |GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCAGTCTGACAGTCGATTTCAGCC| 4737
Query 4738 |TTGACCTACCTTTACCATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTC| 4797
Sbjct 4738 |TTGACCTACCTTTACCATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTC| 4797
Query 4798 |AACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGG| 4857
Sbjct 4798 |AGCGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTGTGGCACCAGGGG| 4857
Query 4858 |AGCGCCCTCCGCGATGTTGACATCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTG| 4917
Sbjct 4858 |AGCGCCCTCCGCGATGTTGACATCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTG| 4917
Query 4918 |CTTGGTATGAGCTACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC| 4977
Sbjct 4918 |CTTGGTATGAGCTATGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC| 4977
Query 4978 |CGGGGCTTCCCGTGTGCCAGGACCACTTGAATTTTGGGAGGGCGTCTTTACGGGCTCA| 5037
Sbjct 4978 |CGGGGCTTCCCGTGTGCCAGGACCACTTGAATTTTGGGAGGGCGTCTTTACGGGCTCA| 5037
Query 5038 |CTCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAAGTTTCCCTTACC| 5097
Sbjct 5038 |CCCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAAGTTTCCCTTACC| 5097
Query 5098 |TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACC| 5157
Sbjct 5098 |TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACC| 5157
Query 5158 |AGATGTGGAAGTGTGTTGATCCGCCTTAAACCCACCCCTCCATGGGCCAACACCCCTGCTAT| 5217
Sbjct 5158 |AGATGTGGAAGTGTGTTGATCCGCCTTAAACCCACCCCTCCATGGGCCAACACCCCTGCTAT| 5217
Query 5218 |ACAGACTGGGCGCTGTTTCAAGATGAAGTCACCTGACGCACCAATCACCATAATACATCA| 5277
Sbjct 5218 |ACAGACTGGGCGCTGTTTCAAGATGAAGTCACCTGACGCACCAATCACCATAATACATCA| 5277
Query 5278 |TGACATGCAATGTCGGCCGACCTGGAGGTGTCACGAGCAGCTGGGTGTCGTTGGCGGG| 5337
Sbjct 5278 |TGACATGCAATGTCGGCCGACCTGGAGGTGTCACGAGCAGCTGGGTGTCGTTGGCGGG| 5337
Query 5338 |TCTTGGCTGCTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCAATAGTGGGAGGA| 5397
Sbjct 5338 |TCTTGGCTGCTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCAATAGTGGGAGGA| 5397
Query 5398 |TCGTCCTTGTCCGGGAAGCCGGAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTTCG| 5457
Sbjct 5398 |TTGTCCTTGTCCGGGAAGCCGGAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTTCG| 5457
Query 5458 |ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGATGATGCTCGCTG| 5517
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Sbjct 5458 ATGAGATGGAAGAGTGTCTCTCAGCACTTACCGTACATCGAGCAAGGATGATGCTCGCTG 5517
Query 5518 AGCAGTTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGGTCGCCCATGCAGAGGTTA 5577
Sbjct 5518 AGCAGTTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGGTCGCCCATGCAGAGGTTA 5577
Query 5578 TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGT 5637
Sbjct 5578 TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGT 5637
Query 5638 GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCG 5697
Sbjct 5638 GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCG 5697
Query 5698 CCATTTGCTTCATTGATGGCTTTTACAGCTGCGCTACACGCCCACTAACCACTGGCCAAA 5757
Sbjct 5698 CCATTTGCTTCATTGATGGCTTTTACAGCTGCGCTACACGCCCACTAACCACTGGCCAAA 5757
Query 5758 CCTCTCTCTTCAACATAATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCG 5817
Sbjct 5758 CCTCTCTCTTCAACATAATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCG 5817
Query 5818 CTACTGCCTTTTGGGGTGTGGCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA 5877
Sbjct 5818 CTACCGCCTTTTGGGGTGTGGCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA 5877
Query 5878 AGGTCTCTGGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT 5937
Sbjct 5878 AGGTCTCTGGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT 5937
Query 5938 TCAAGATCATGAGCGGTGAGGTCCCTCCACGAGGAGACCTGGTCAATCTGCTGCCGCCA 5997
Sbjct 5938 TCAAGATCATGAGCGGTGAGGTCCCTCCACGAGGAGACCTGGTCAATCTGCTGCCGCCA 5997
Query 5998 TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATCTGCGCCGGCAGC 6057
Sbjct 5998 TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATCTGCGCCGGCAGC 6057
Query 6058 TTGGCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGG 6117
Sbjct 6058 TTGGCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGG 6117
Query 6118 GGAACCAATGTTTCCCCACGCACTACGTGCCGAGAGCGATGCAGCCGCCCGCGTCACTG 6177
Sbjct 6118 GGAACCAATGTTTCCCCACGCACTACGTGCCGAGAGCGATGCAGCCGCCCGCGTCACTG 6177
Query 6178 CATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT 6237
Sbjct 6178 CATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT 6237
Query 6238 CGGAGTGTACCATCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG 6297
Sbjct 6238 CGGAGTGTACCATCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG 6297
Query 6298 AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCAACATGCCTGGGA 6357
Sbjct 6298 AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCAACATGCCTGGGA 6357
Query 6358 TTCCCTTTGTGTCTGCCAGCGCGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGC 6417
Sbjct 6358 TTCCCTTTGTGTCTGCCAGCGCGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGC 6417
Query 6418 ACACCTCGTGCCTACTGTGGAGCTGAGATCACTGGACATGTCAAAACGGGACGATGAGGA 6477
Sbjct 6418 ACACCTCGTGCCTACTGTGGAGCTGAGATCACTGGACATGTCAAAACGGGACGATGAGGA 6477
Query 6478 TCGTCGGTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCATTAACGCCCTACA 6537
Sbjct 6478 TCGTCGGTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCATTAACGCCCTACA 6537
Query 6538 CCACGGGCCCCGTGACTCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGT 6597
Sbjct 6538 CCACGGGCCCCGTGACTCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGT 6597
Query 6598 CTGCAGAGGAATACGTGGAGATAAGCGGGTGGGGACTTCCACTACGTATCGGGTATGA 6657

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Sbjct  6598  |CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGA| 6657
Query  6658  |CTACTGACAATCTTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGG| 6717
Sbjct  6658  |CTACTGACAATCTTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGG| 6717
Query  6718  |ACGGGGTGCGCCTACACAGGTTTGGCGCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTAT| 6777
Sbjct  6718  |ACGGGGTGCGCCTACATAGGTTTGGCGCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTAT| 6777
Query  6778  |CATTCAGAGTAGGACTCCACAGGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCCGAAC| 6837
Sbjct  6778  |CATTCAGAGTAGGACTCCACAGGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCCGAAC| 6837
Query  6838  |CGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACACAGAGGCGCG| 6897
Sbjct  6838  |CGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACACAGAGGCGCG| 6897
Query  6898  |CGGGAGAAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGC| 6957
Sbjct  6898  |CGGGAGAAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCGAGCCAGC| 6957
Query  6958  |TGTCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGC| 7017
Sbjct  6958  |TGTCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGC| 7017
Query  7018  |TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGCAACATCACCAGGTTGAGT| 7077
Sbjct  7018  |TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGCAACATCACCAGGTTGAGT| 7077
Query  7078  |CAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC| 7137
Sbjct  7078  |CAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC| 7137
Query  7138  |GGGAGGTCCTCGCTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGC| 7197
Sbjct  7138  |GGGAGGTCCTCGCTACCCGAGAAATTCGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGC| 7197
Query  7198  |CCGTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGAGCTGGAAGAAAGCCTGACT| 7257
Sbjct  7198  |CCGTTTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGAGCTGGAAGAAAGCCTGACT| 7257
Query  7258  |ACGAACCACTGTGGTCCATGGCTGCCCGCTACCACTCCACGGTCCCTCCTGTGCCTC| 7317
Sbjct  7258  |ACGAACCACTGTGGTCCATGGCTGCCCGCTACCACTCCACGGTCCCTCCTGTGCCTC| 7317
Query  7318  |CGCCTCGGAAAAAGCGTACGGTGGTCTCACCAGAAATCAACCTATCTAGCTGCTGGCCG| 7377
Sbjct  7318  |CGCCTCGGAAAAAGCGTACGGTGGTCTCACCAGAAATCAACCTACTACTGCTTGGCCG| 7377
Query  7378  |AGCTTGGCCACCAAAAGTTTGGCAGCTCCTCAACTTCGGCATTACGGGCGACAATACGA| 7437
Sbjct  7378  |AGCTTGGCCACCAAAAGTTTGGCAGCTCCTCAACTTCGGCATTACGGGCGACAATATGA| 7437
Query  7438  |CAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCGGCGGAGCTCCGACGTTGAGTCTATT| 7497
Sbjct  7438  |CAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCGGCGGAGCTCCGACGTTGAGTCTATT| 7497
Query  7498  |CTTCCATGCGGCGGCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCTATGT| 7557
Sbjct  7498  |CTTCCATGCCCCCTTGGAGGGGGAGCCTGGGGATCCGGATTTACGACGACGGGTCTATGT| 7557
Query  7558  |CGACGGTCAGTAGTGGGGCCGACCGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCT| 7617
Sbjct  7558  |CGACGGTCAGTAGTGGGGCCGACCGGAAGATGTCGTGTGCTGCTCAATGTCTTATACCT| 7617
Query  7618  |GGACAGGCGCACTCGTCACCCCGTGGCTGCGGAAGAACAAAAATGCCCATCAACGCAC| 7677
Sbjct  7618  |GGACAGGCGCACTCGTCACCCCGTGGCTGCGGAAGAACAAAAATGCCCATCAACGCAC| 7677
Query  7678  |TGAGCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCCTTACCGCAGTGCTT| 7737
Sbjct  7678  |TGAGCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCCTTACCGCAGTGCTT| 7737
Query  7738  |GCCAAAGGCAGAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGG| 7797

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Sbjct	7738	GCCAAAGGCAGAGAAGGTACACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGG	7797
Query	7798	ACGTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGGTGAAGGCTAACTTGCTATCCGTAG	7857
Sbjct	7798	ACGTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGGTGAAGGCTAACTTGCTATCCGTAG	7857
Query	7858	AGGAAGCTTGCAGCTGACGCCCCACATTACGCCAAATCCAAGTTTGCGTATGGGGCAA	7917
Sbjct	7858	AGGAAGCTTGCAGCTGACGCCCCACATTACGCCAAATCCAAGTTTGCGTATGGGGCAA	7917
Query	7918	AAGACGTCCTGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACC	7977
Sbjct	7918	AAGACGTCCTGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACC	7977
Query	7978	TTCGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCAAAGACGAGGTTTCT	8037
Sbjct	7978	TTCGGAAGACAGTGTAAACCAATAGACACTATCATATGGCAAAGACGAGGTTTCT	8037
Query	8038	GCGTTCAGCCTGAGAAGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTCCCCGACCTGG	8097
Sbjct	8038	GCGTTCAGCCTGAGAAGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTCCCCGACCTGG	8097
Query	8098	GCGTGGCGGTGTGGCAGAAGATGGCCCTGTACGACGTGGTTAGCAAAGCTCCCCTGCCG	8157
Sbjct	8098	GCGTGGCGGTGTGGCAGAAGATGGCCCTGTACGACGTGGTTAGCAAAGCTCCCCTGCCG	8157
Query	8158	TGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGC	8217
Sbjct	8158	TGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGC	8217
Query	8218	AAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCCTGATGATACCCGCTGTTTGACT	8277
Sbjct	8218	AAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCCTGATGATACCCGCTGTTTGACT	8277
Query	8278	CCACAGTCACTGAGAGCGACATCCGTACGGAGGAGCAATTTACCAATGTTGTACCTGG	8337
Sbjct	8278	CCACAGTCACTGAGAGCGACATCCGTACGGAGGAGCAATTTACCAATGTTGTACCTGG	8337
Query	8338	ACCCCCAAGCCCGGTGGCCATCAAGTCCCTACTGAGAGGCTTTATGTTGGGGGCCCTC	8397
Sbjct	8338	ACCCCCAAGCCCGGTGGCCATCAAGTCCCTACTGAGAGGCTTTATGTTGGGGGCCCTC	8397
Query	8398	TTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCAGCGGCTACTGA	8457
Sbjct	8398	TTACCAATTCAAGGGGGGAAAACTGCGGCTATCGCAGGTGCCGCGCAGCGGCTACTGA	8457
Query	8458	CAACTAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCGGGGCAGCCTGTGAGCGG	8517
Sbjct	8458	CAACTAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCGGGGCAGCCTGTGAGCGG	8517
Query	8518	CAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAA	8577
Sbjct	8518	CAGGGCTCCAGGACTGCACCATGCTCGTGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAA	8577
Query	8578	GTGCGGGGGTCCAGGAGGACGGCGGAGCCTGAGAGCCTTACGAGGGCTATGACCAGGT	8637
Sbjct	8578	GTGCGGGGGTCCAGGAGGACGGCGGAGCCTGAGAGCCTTACGAGGGCTATGACCAGGT	8637
Query	8638	ACTCCGcccccccccggggagcccccACAACGAAATACGACTTGGAGCTTATAACATCAT	8697
Sbjct	8638	ACTCCGCCCCCCCCGGGGAGCCCCCACAACGAAATACGACTTGGAGCTTATAACATCAT	8697
Query	8698	GCTCCTCCAACGTGTCAGTCGCCACGACGGCGCTGGAAGAGGGTCTACTACCTTACCC	8757
Sbjct	8698	GCTCCTCCAACGTGTCAGTCGCCACGACGGCGCTGGAAGAGGGTCTACTACCTTACCC	8757
Query	8758	GTGACCTCAACCCCTCCGCGAGACGCCGTGGAGACAGCAAGACACACTCCAGTCA	8817
Sbjct	8758	GTGACCTCAACCCCTCCGCGAGACGCCGTGGAGACAGCAAGACACACTCCAGTCA	8817
Query	8818	ATTCTGGCTAGGCAACATAATCATGTTTGCCCCCACTGTGGGCGAGGATGATACCTGA	8877
Sbjct	8818	ATTCTGGCTAGGCAACATAATCATGTTTGCCCCCACTGTGGGCGAGGATGATACCTGA	8877
Query	8878	TGACCCATTTCCTTAGGTCTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTG	8937

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Sbjct  8878  TGAACCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTG  8937
Query  8938  AGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAGAC  8997
Sbjct  8938  AGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAGAC  8997
Query  8998  TCCATGGGCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGG  9057
Sbjct  8998  TCCATGGGCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAGTCAATAGGGTGG  9057
Query  9058  CCGCATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGGA  9117
Sbjct  9058  CCGCATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGGA  9117
Query  9118  CGGTCCGCGCTAGGCTTTCTGTCCAGAGGAGGCGAGGCTCGCATATGTGGCAAGTACCTCT  9177
Sbjct  9118  CGGTCCGCGCTAGGCTTTCTGTCCAGGAGGAGGCGAGGCTGCCATATGTGGCAAGTACCTCT  9177
Query  9178  TCAACTGGGAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGGCCGTGGCCGGCTGG  9237
Sbjct  9178  TCAACTGGGAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGGCCGTGGCCGGCTGG  9237
Query  9238  ACTTGTCGGTGTGGTTACAGGCTGGCTACAGCGGGGAGACATTATACAGCGTGTCTCT  9297
Sbjct  9238  ACTTGTCGGTGTGGTTACAGGCTGGCTACAGCGGGGAGACATTATACAGCGTGTCTCT  9297
Query  9298  ATGCCCGGGCCCGCTGGTTCTGGTTTTTGCTACTCCTGCTCGTGCAGGGGTAGGCATCT  9357
Sbjct  9298  ATGCCCGGGCCCGCTGGTTCTGGTTTTTGCTACTCCTGCTCGTGCAGGGGTAGGCATCT  9357
Query  9358  ACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCC-GGCC  9400
Sbjct  9358  ACCTCCTCCCCAACCGGTGAAGATTGGGTAACCACTCCAGGCC  9401

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>dbj|BD069999.1| Functional DNA clone for hepatitis C virus (HCV) and uses thereof
Length=9416

Score = 1.688e+04 bits (9142), Expect = 0.0
Identities = 9318/9404 (99%), Gaps = 7/9404 (0%)
Strand=Plus/Plus

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Query  1  GCCAGCCCCCTGATGGGGGCGACACTCCACCATGA-ATCACTCCCTGTGAGGAACACT  59
Sbjct  1  GCCAGCCCCCTGATGGGGGCGACACTCCACCAT-AGATCACTCCCTGTGAGGAACACT  59
Query  60  GTCTTCACGAGAAAGCGCTAGCCATGGCGTTAGTATGAGTGTGCTGCAGCCTCCAGGA  119
Sbjct  60  GTCTTCACGAGAAAGCGCTAGCCATGGCGTTAGTATGAGTGTGCTGCAGCCTCCAGGA  119
Query  120  cccccccTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA  179
Sbjct  120  CCCCCCTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA  179
Query  180  GGACGACCGGGTCTTTCTTGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC  239
Sbjct  180  GGACGACCGGGTCTTTCTTGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC  239
Query  240  CGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCTTTGGTACTGCCTGATAG  299
Sbjct  240  CGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCTTTGGTACTGCCTGATAG  299
Query  300  GTGTGCTTGCGAGTGCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCTCAA  359
Sbjct  300  GTGTGCTTGCGAGTGCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCTCAA  359
Query  360  CCTCAAGAAAAACCAACGTAACCAACCCGTCGCCACAGGACGTCAAGTTCCCGGGT  419
Sbjct  360  CCTCAAGAAAAACCAACGTAACCAACCCGTCGCCACAGGACGTGAGTTCCCGGGT  419
Query  420  GCGCGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGGCCCTAGATTGGGTGTG  479
Sbjct  420  GCGCGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGGCCCTAGATTGGGTGTG  479
Query  480  CGCGCAGCAGGAGAACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGACCTATCCCC  539

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Sbjct	480		CGCGCGACGAGGAAGACTTCGAGCGGTGCGAACCTCGTGGTAGACGTCAGCCTATCCCC	539
Query	540		AAGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCCTGGCCCCCTCTAT	599
Sbjct	540		AAGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCCTGGCCCCCTCTAT	599
Query	600		GGCAATAGAGGTTGCGGGTGGCGGGGATGGCTCTGTCTCCCGTGGCTCTCGGCCATAGC	659
Sbjct	600		GGCAATAGAGGTTGCGGGTGGCGGGGATGGCTCTGTCTCCCGTGGCTCTCGGCCATAGC	659
Query	660		TGGGGCCCCACAGACCCCGCGTAGTTCGCGCAATTTGGGTAAAGTCATCGATACCCCTT	719
Sbjct	660		TGGGGCCCCACAGACCCCGCGTAGTTCGCGCAATTTGGGTAAAGTCATCGATACCCCTT	719
Query	720		ACGTGGCGCTTCGCGGACCTCATGGGTACATACGCTCTGTCGGCGCCCTCTTTGGAGC	779
Sbjct	720		ACGTGGCGCTTCGCGGACCTCATGGGTACATACGCTCTGTCGGCGCCCTCTTTGGAGC	779
Query	780		GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACA	839
Sbjct	780		GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACA	839
Query	840		GGGAACCTTCTCGTTGCTCTTTCTCTATCTTCTTCTGCGCCTGCTCTCTGCGCTGACT	899
Sbjct	840		GGGAACCTTCTCGTTGCTCTTTCTCTATCTTCTTCTGCGCCTGCTCTCTGCGCTGACT	899
Query	900		GTGCCCCGCTTCAGCCTACCAAGTGCAGCAATTCCTCGGGGCTTTACCATGTCACCAATGAT	959
Sbjct	900		GTGCCCCGCTTCAGCCTACCAAGTGCAGCAATTCCTCGGGGCTTTACCATGTCACCAATGAT	959
Query	960		TGCCCTAACTCAGATATTGTGTACGAGGCGGCCGATGCCATCTCGCACTTCGGGGGTG	1019
Sbjct	960		TGCCCTAACTCAGATATTGTGTACGAGGCGGCCGATGCCATCTCGCACTTCGGGGGTG	1019
Query	1020		GTCCCTTGCGTTTCGCGAGGGTAACGCCCTCGAGGTGTTGGGTGCGCGTGACCCCAAGGGT	1079
Sbjct	1020		GTCCCTTGCGTTTCGCGAGGGTAACGCCCTCGAGGTGTTGGGTGCGCGTGACCCCAAGGGT	1079
Query	1080		GCCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGAGCTCATATCGATCTGCTTGTCT	1139
Sbjct	1080		GCCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGAGCTCATATCGATCTGCTTGTCT	1139
Query	1140		GGGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTTCTT	1199
Sbjct	1140		GGGAGCGCCACCCCTCTGCTCAGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTTTTTCTT	1199
Query	1200		GTGGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAA-GACTGCAATTG	1258
Sbjct	1200		GTGGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAAG-CTGCAATTG	1258
Query	1259		TTCTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAAGT	1318
Sbjct	1259		TTCTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAAGT	1318
Query	1319		GTCCCCACGGCAGCGTTGGTGGTAGCTCAGTGTCTCGGATCCCAAGCCATCATGGA	1378
Sbjct	1319		GTCCCCACGGCAGCGTTGGTGGTAGCTCAGTGTCTCGGATCCCAAGCCATCATGGA	1378
Query	1379		CATGATCGCTGGTGCTCACTGGGAGTCTTGGCGGGCATAGCGTATTCTCCATGGTGGG	1438
Sbjct	1379		CATGATCGCTGGTGCTCACTGGGAGTCTTGGCGGGCATAGCGTATTCTCCATGGTGGG	1438
Query	1439		GAACTGGGCGAAGGTCTTGGTAGTGTGCTGCTATTGTCGGCGTGCAGCGGGAACCCA	1498
Sbjct	1439		GAACTGGGCGAAGGTCTTGGTAGTGTGCTGCTATTGTCGGCGTGCAGCGGGAACCCA	1498
Query	1499		CGTCACCGGGGGAAATGCCGGCCGACACCGGCTGGGCTTGTGTTGCTCTTACACACAGG	1558
Sbjct	1499		CGTCACCGGGGGAAATGCCGGCCGACACCGGCTGGGCTTGTGTTGCTCTTACACACAGG	1558
Query	1559		CGCCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCAGATCAATAGCAGGC	1618
Sbjct	1559		CGCCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCAGATCAATAGCAGGC	1618
Query	1619		CTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAA	1678

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Sbjct 1619      |||||
CTTGAACATGCAACGATAGCCTTACCACCGGCTGGTTAGCAGGGCTCTTCTATCGCCACAA 1678
Query 1679      |||||
ATTCAACTCTTCAGGCTGTCTGAGAGGTGGCCAGCTGCCGACGCCCTTACCGATTTCG 1738
Sbjct 1679      |||||
ATTCAACTCTTCAGGCTGTCTGAGAGGTGGCCAGCTGCCGACGCCCTTACCGATTTCG 1738
Query 1739      |||||
CCAGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTG 1798
Sbjct 1739      |||||
CCAGGGCTGGGGTCCCATCAGTTATGCCAACGGAAGCGGCTTGACGAACGCCCTACTG 1798
Query 1799      |||||
CTGGCACTACCCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGT 1858
Sbjct 1799      |||||
TTGGCACTACCCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGT 1858
Query 1859      |||||
ATATTGCTTCACTCCAGCCCCGTGGTGGGAACGACGACAGGTGCGGCGCGCTAC 1918
Sbjct 1859      |||||
ATATTGCTTCACTCCAGCCCCGTGGTGGGAACGACGACAGGTGCGGCGCGCTAC 1918
Query 1919      |||||
CTACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCTTAACAAACACGAGCCACCGCT 1978
Sbjct 1919      |||||
CTACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCTTAACAAACACGAGCCACCGCT 1978
Query 1979      |||||
GGGCAATTGGTTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGC 2038
Sbjct 1979      |||||
GGGCAATTGGTTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGC 2038
Query 2039      |||||
GCCCCCTTGTGTCATCGGAGGGGTGGGCAACAAACACCTTGCTCTGCCCACTGATTGCTT 2098
Sbjct 2039      |||||
GCCCCCTTGTGTCATCGGAGGGGTGGGCAACAAACACCTTGCTCTGCCCACTGATTGCTT 2098
Query 2099      |||||
CCGAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG 2158
Sbjct 2099      |||||
CCGAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG 2158
Query 2159      |||||
GTGCATGGTGCATACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT 2218
Sbjct 2159      |||||
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Query 2219      |||||
ATTCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGGCTGGAAGCGGCTGCAACTG 2278
Sbjct 2219      |||||
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Query 2279      |||||
GACGCGGGGGCAACGCTGTGATCTGGAAGACAGGGACAGGTCAGAGCTCAGCCGTTGCT 2338
Sbjct 2279      |||||
GACGCGGGGGCAACGCTGTGATCTGGAAGACAGGGACAGGTCAGAGCTCAGCCCATTTGCT 2338
Query 2339      |||||
GCTGTCCACACACAGTGGCAGGTCCCTCCGTGTTCTTTCACGACCTGCCAGCCTTGTG 2398
Sbjct 2339      |||||
GCTGTCCACACACAGTGGCAGGTCCCTCCGTGTTCTTTCACGACCTGCCAGCCTTGTG 2398
Query 2399      |||||
CACCAGCCTCATCCACCTCCACAGAACATTGTGGAGTGCAGTACTTGTACGGGGTAGG 2458
Sbjct 2399      |||||
CACCAGCCTCATCCACCTCCACAGAACATTGTGGAGTGCAGTACTTGTACGGGGTAGG 2458
Query 2459      |||||
GTCAAGCATCGCGTCTCGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCT 2518
Sbjct 2459      |||||
GTCAAGCATCGCGTCTCGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCT 2518
Query 2519      |||||
TGCAGACGCGCGGCTCTGCTCTGCTTGTGGATGATGTTACTCATATCCAAGCGGAGGC 2578
Sbjct 2519      |||||
TGCAGACGCGCGGCTCTGCTCTGCTTGTGGATGATGTTACTCATATCCAAGCGGAGGC 2578
Query 2579      |||||
GGCTTTGGAGAACTCGTAATACTCAATGCAGCATCCTTGGCCGGGACGACGGTCTTGT 2638
Sbjct 2579      |||||
GGCTTTGGAGAACTCGTAATACTCAATGCAGCATCCTTGGCCGGGACGACGGTCTTGT 2638
Query 2639      |||||
GTCTTCTCTGTTCTTCTGCTTTGCTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGC 2698
Sbjct 2639      |||||
GTCTTCTCTGTTCTTCTGCTTTGCTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGC 2698
Query 2699      |||||
GGTCTACGCCCTCTACGGGATGTGGCTCTCCTCTCTGCTCTGCTGGCGTTGCTCTCAGC 2758
Sbjct 2699      |||||
GGTCTACGCCCTCTACGGGATGTGGCTCTCCTCTCTGCTCTGCTGGCGTTGCTCTCAGC 2758
Query 2759      |||||
GGCATACGCACTGGACACGGAGGTGGCCGCGCTGCTGTGGCGGCGTTGTTCTTGTGGGTT 2818

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Sbjct 2759 GGCATACGCACTGGACACGAGGTGGCCGCGTCGTGTGGCGCGCTTGTCTTGTGCGGTT 2818
Query 2819 AATGGCGGTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCAATGTGGTGGCT 2878
Sbjct 2819 AATGGCGGTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCAATGTGGTGGCT 2878
Query 2879 TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTcccccccTCAACGT 2938
Sbjct 2879 TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGT 2938
Query 2939 CCggggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCTTGGTATT 2998
Sbjct 2939 CCGggggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCTTGGTATT 2998
Query 2999 TGACATACCAAACCTACTCTCGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT 3058
Sbjct 2999 TGACATACCAAACCTACTCTCGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT 3058
Query 3059 GCTTAAAGTCCCTACTCTCGTGCAGCTTCAAGGCCCTTCCGGATCTGCGCGCTAGCGCG 3118
Sbjct 3059 GCTTAAAGTCCCTACTCTCGTGCAGCTTCAAGGCCCTTCCGGATCTGCGCGCTAGCGCG 3118
Query 3119 GAAGATAGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG 3178
Sbjct 3119 GAAGATAGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG 3178
Query 3179 CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGCGCTGCGAGA 3238
Sbjct 3179 CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGCGCTGCGAGA 3238
Query 3239 TCTGGCCGTGGCTGTGGAAACAGTCGCTTCTCCGGAATGGAGACCAAGCTCATCACGTG 3298
Sbjct 3239 TCTGGCCGTGGCTGTGGAAACAGTCGCTTCTCCGGAATGGAGACCAAGCTCATCACGTG 3298
Query 3299 GGGGGCAGATAACGCGCGCTGCGGTGACATCATCAACGGCTTGCCCGCTCTTGCCCGTAG 3358
Sbjct 3299 GGGGGCAGATAACGCGCGCTGCGGTGACATCATCAACGGCTTGCCCGCTCTTGCCCGTAG 3358
Query 3359 GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGTTGCT 3418
Sbjct 3359 GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGTTGCT 3418
Query 3419 GGGCCCCATACGGCGTACGCCAGCAGACGAGAGGCTCCTAGGGTGATAATCACCAG 3478
Sbjct 3419 GGGCCCCATACGGCGTACGCCAGCAGACGAGAGGCTCCTAGGGTGATAATCACCAG 3478
Query 3479 CTTGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC 3538
Sbjct 3479 CTTGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC 3538
Query 3539 CCAAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG 3598
Sbjct 3539 CCAAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG 3598
Query 3599 AACGAGGACCATCGCATCACCAAGGGTCCTGTATCCAGATGTATACCAATGTGGACCA 3658
Sbjct 3599 AACGAGGACCATCGCATCACCAAGGGTCCTGTATCCAGATGTATACCAATGTGGACCA 3658
Query 3659 AGACCTTGTGGGCTGGCCGCTCTCTAAGGTTCCGCGCTCATTGACACCTGTACCTGCGG 3718
Sbjct 3659 AGACCTTGTGGGCTGGCCGCTCTCTAAGGTTCCGCGCTCATTGACACCTGTACCTGCGG 3718
Query 3719 CTCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGG 3778
Sbjct 3719 CTCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGG 3778
Query 3779 TGATAGCAGGGGTAGCCTGCTTTCGCCCGGGCCCAATTCTACTTTGAAAGGCTCCTCGGG 3838
Sbjct 3779 TGATAGCAGGGGTAGCCTGCTTTCGCCCGGGCCCAATTCTACTTTGAAAGGCTCCTCGGG 3838
Query 3839 GGGTCCGCTGTTGTGCCCCGCGGACACGCCGTGGGCTATTACGGGCGCGGTGTGCAC 3898
Sbjct 3839 GGGTCCGCTGTTGTGCCCCGCGGACACGCCGTGGGCTATTACGGGCGCGGTGTGCAC 3898
Query 3899 CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG 3958

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Sbjct	3899	CCGTGGAGTACCAAGCGCGTGACCTTTATCCCTGTGGAGAACCTAGAGACAACCTAG	3958
Query	3959	ATCCCCGGTGTTTACGGACAACTCCTCTCCACAGCAGTGCCCCAGAGGTTCCAGGTGGC	4018
Sbjct	3959	ATCCCCGGTGTTTACGGACAACTCCTCTCCACAGCAGTGCCCCAGAGGTTCCAGGTGGC	4018
Query	4019	CCACCTGCATGCTCCACCAGGAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGACGC	4078
Sbjct	4019	CCACCTGCATGCTCCACCAGGAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGACGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTGTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTGTGCTGCAACGCTGGGCTTTGGTGC	4138
Query	4139	TTACATGTCCAAGGCCATGGGGTGTGCTCTAATATCAGGACCGGGGTGAGAACAAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCCATGGGGTGTGCTCTAATATCAGGACCGGGGTGAGAACAAATTAC	4198
Query	4199	CACCTGGCAGCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CACCTGGCAGCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATAATTGTGTGACAGTGCCACTTCCACGGATGCCACATCCAT	4318
Sbjct	4259	AGGAGGCGCTTATGACATAATAATTGTGTGACAGTGCCACTTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTCGCGGGGCGAGACTGGTTGTGCT	4378
Sbjct	4319	CTTGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTCGCGGGGCGAGATTGGTTGTGCT	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACCTGTGTCCCATCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACCTGTGTCCCATCTAACATCGAGGAGGTTGC	4438
Query	4439	TCGTGTCACCAACGGAGAGATCCCTTT- TACGGCAAGGCTATCCCCCTCGAGGTGATCA	4497
Sbjct	4439	TCTGTCCACCAACGGAGAGATCCC- TTTCTACGGCAAGGCTATCCCCCTCGAGGTGATCA	4497
Query	4498	AGGGGGGAAGACATCTCATCTTCTGCACTCAAGAAGAAAGTGCACAGAGCTCGCCGGA	4557
Sbjct	4498	AGGGGGGAAGACATCTCATCTTCTGCACTCAAGAAGAAAGTGCACAGAGCTCGCCGGA	4557
Query	4558	AGCTGGTCGCAATTGGGCATCAATGCCGTGGCCTACTACCGGGGCTTGCAGCTGTCTGTCA	4617
Sbjct	4558	AGCTGGTCGCAATTGGGCATCAATGCCGTGGCCTACTACCGGGGCTTGCAGCTGTCTGTCA	4617
Query	4618	TCCGACCAAGCGGGATGTTGTGCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCG	4677
Sbjct	4618	TCCGACCAAGCGGGATGTTGTGCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCG	4677
Query	4678	GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCC	4737
Sbjct	4678	GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCC	4737
Query	4738	TTGACCTTACCTTTTACCAATTGAGACAACACCGTCCCCCAGGATGCTGTCTCCAGGACTC	4797
Sbjct	4738	TTGACCTTACCTTTTACCAATTGAGACAACACCGTCCCCCAGGATGCTGTCTCCAGGACTC	4797
Query	4798	AACGCCGGGGCAGCACTGGCAGGGGGGAAGCCAGGCATCTATAGATTGTGGCACC	4857
Sbjct	4798	AGCGCCGGGGCAGCACTGGCAGGGGGGAAGCCAGGCATCTACAGATTGTGGCACC	4857
Query	4858	AGCGCCCCCTCGGCATGTTGCACTCGTCCGTCCTCTGTGTGAGTGCTATGACCGGGCTGTG	4917
Sbjct	4858	AGCGCCCCCTCGGCATGTTGCACTCGTCCGTCCTCTGTGTGAGTGCTATGACCGGGCTGTG	4917
Query	4918	CTTGGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGACGCTACATGAACACCC	4977
Sbjct	4918	CTTGGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGACGCTACATGAACACCC	4977
Query	4978	CGGGGCTTCCGGGTGCGCAGGACCATCTGAATTTGGGAGGGCGCTTTTACGGGCTCA	5037
Sbjct	4978	CGGGGCTTCCGGGTGCGCAGGACCATCTGAATTTGGGAGGGCGCTTTTACGGGCTCA	5037
Query	5038	CTCATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAACTTCTCTTACC	5097

Sbjct 5038 CCCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC 5097
Query 5098 TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACC 5157
Sbjct 5098 TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACC 5157
Query 5158 AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCCTCCATGGGCCAACACCCCTGCTAT 5217
Sbjct 5158 AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCCTCCATGGGCCAACACCCCTGCTAT 5217
Query 5218 ACAGACTGGGCGCTGTTCAAGATGAAGTACCCCTGACGCACCCCAATCACCATAATACATCA 5277
Sbjct 5218 ACAGACTGGGCGCTGTTCAAGATGAAGTACCCCTGACGCACCCCAATCACCATAATACATCA 5277
Query 5278 TGACATGCAATGTGCGCCGACCTGGAGGTGCTCAGAGCACCTGGGTGCTCGTTGGCGGG 5337
Sbjct 5278 TGACATGCAATGTGCGCCGACCTGGAGGTGCTCAGAGCACCTGGGTGCTCGTTGGCGGG 5337
Query 5338 TCCTGGCTGCTCTGGCCGCGTATTGCCCTGTCAACAGGCTGCGTGGTCATAGTGGGAGGA 5397
Sbjct 5338 TCCTGGCTGCTCTGGCCGCGTATTGCCCTGTCAACAGGCTGCGTGGTCATAGTGGGAGGA 5397
Query 5398 TCGTCTTGTCGGGAAGCCGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTCG 5457
Sbjct 5398 TGTGCTTGTCGGGAAGCCGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTCG 5457
Query 5458 ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG 5517
Sbjct 5458 ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG 5517
Query 5518 AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGGCTCCCGCCATCGAGAGGTTA 5577
Sbjct 5518 AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGGCTCCCGCCATCGAGAGGTTA 5577
Query 5578 TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGT 5637
Sbjct 5578 TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGT 5637
Query 5638 GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCCG 5697
Sbjct 5638 GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCCG 5697
Query 5698 CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACACGCCCACTAACCACCTGGCCAAA 5757
Sbjct 5698 CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACACGCCCACTAACCACCTGGCCAAA 5757
Query 5758 CCTCCTCTTCAACATAATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCG 5817
Sbjct 5758 CCTCCTCTTCAACATAATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCG 5817
Query 5818 CTACTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA 5877
Sbjct 5818 CTACCGCCTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA 5877
Query 5878 AGGTCTCTGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT 5937
Sbjct 5878 AGGTCTCTGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT 5937
Query 5938 TCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA 5997
Sbjct 5938 TCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA 5997
Query 5998 TCCTCTCGCCTGGAGCCCTTGTAGTGGTGTGGTCTGCGCAGCAATCTGCGCCGGCAGC 6057
Sbjct 5998 TCCTCTCGCCTGGAGCCCTTGTAGTGGTGTGGTCTGCGCAGCAATCTGCGCCGGCAGC 6057
Query 6058 TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGG 6117
Sbjct 6058 TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGG 6117
Query 6118 GGAACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGCAGCCGCCCGCGTCACTG 6177
Sbjct 6118 GGAACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGCAGCCGCCCGCGTCACTG 6177
Query 6178 CCATACTCAGCAGCTTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGATAAGCT 6237

Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCTCTGAGCGACTACATCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTACCACTCCATGCTCCGGTCTCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	CGGAGTGTACCACTCCATGCTCCGGTCTCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298	AGGTGCTGAGCGACTTTTAAGACTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGA	6357
Sbjct	6298	AGGTGCTGAGCGACTTTTAAGACTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGA	6357
Query	6358	TTCCCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGC	6417
Sbjct	6358	TTCCCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGC	6417
Query	6418	ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Sbjct	6418	ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Query	6478	TCGTCCGTCTTAGGACTTCAGGAACATGTGGAGTGGGACGTTCCCCATTAAAGCCTACA	6537
Sbjct	6478	TCGTCCGTCTTAGGACTTCAGGAACATGTGGAGTGGGACGTTCCCCATTAAAGCCTACA	6537
Query	6538	CCACGGGGCCCTGTACTCCCTTCTCTGCGCCGAACATAAGTTCCGGCTGTGGAGGGTGT	6597
Sbjct	6538	CCACGGGGCCCTGTACTCCCTTCTCTGCGCCGAACATAAGTTCCGGCTGTGGAGGGTGT	6597
Query	6598	CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTCATCGGGTATGA	6657
Sbjct	6598	CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTCATCGGGTATGA	6657
Query	6658	CTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGGAATTTTTCACAGAATTGG	6717
Sbjct	6658	CTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGGAATTTTTCACAGAATTGG	6717
Query	6718	ACGGGGTGCGCCTACACAGGTTTGCGCCCTTTGCAAGCCCTTGCTGCGGGAGGAGTAT	6777
Sbjct	6718	ACGGGGTGCGCCTACACAGGTTTGCGCCCTTTGCAAGCCCTTGCTGCGGGAGGAGTAT	6777
Query	6778	CATTACAGATAGGACTCCACAGTACCAGGTGGGGTGCGAATTACCTTGCAGAGCCGAAC	6837
Sbjct	6778	CATTACAGATAGGACTCCACAGTACCAGGTGGGGTGCGAATTACCTTGCAGAGCCGAAC	6837
Query	6838	CGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGG	6897
Sbjct	6838	CGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGG	6897
Query	6898	CCGGGAGAAGGTTGGCGAGAGGGTACCCTCTTCTATGGCCAGCTCCTCGGCTAGCCAGC	6957
Sbjct	6898	CCGGGAGAAGGTTGGCGAGAGGGTACCCTCTTCTATGGCCAGCTCCTCGGCTAGCCAGC	6957
Query	6958	TGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGC	7017
Sbjct	6958	TGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGC	7017
Query	7018	TCATAGAGGCTAACTCCTGTGGAGGCAAGAGATGGGCGGCAACATCACCAGGGTTGAGT	7077
Sbjct	7018	TCATAGAGGCTAACTCCTGTGGAGGCAAGAGATGGGCGGCAACATCACCAGGGTTGAGT	7077
Query	7078	CAGAGAACAAAGTGGTGATTTCTGGAACCTCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC	7137
Sbjct	7078	CAGAGAACAAAGTGGTGATTTCTGGAACCTCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC	7137
Query	7138	GGGAGGTCTCCGTACCTGCAGAAATTTCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGC	7197
Sbjct	7138	GGGAGGTCTCCGTACCTGCAGAAATTTCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGC	7197
Query	7198	CCGTCTGGGCGCGCCCGGACTACAACCCCGCGCTAGTAGAGACGTGGAAAAAGCCTGACT	7257
Sbjct	7198	CCGTCTGGGCGCGCCCGGACTACAACCCCGCGCTAGTAGAGACGTGGAAAAAGCCTGACT	7257
Query	7258	ACGAACCACTGTGGCTCATGCTGCGCGCTACCACCTTCCACGGTCCCTCTCTGTGCTCT	7317
Sbjct	7258	ACGAACCACTGTGGCTCATGCTGCGCGCTACCACCTTCCACGGTCCCTCTCTGTGCTCT	7317
Query	7318	CGCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCTTTGGCGG	7377

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Sbjct 7318 |CGCCTCGGAAAAAGCGTACGGTGGTCTCTACCGAATCAACCTACCTACTGCTTGGCCG| 7377
Query 7378 |AGCTTGCCACCAGAAAGTTTGGCAGCTCTCAACTTCGGCATTACGGGGGACAAATACGA| 7437
Sbjct 7378 |AGCTTGCCACCAGAAAGTTTGGCAGCTCTCAACTTCGGCATTACGGGGGACAAATATGA| 7437
Query 7438 |CAACATCTCTGAGGCCGCCCTTCTGGGTG|GCCCCGACTCCGACGTTGAGTCTATT| 7497
Sbjct 7438 |CAACATCTCTGAGGCCGCCCTTCTGGGTGCCGCCCGACTCCGACGTTGAGTCTATT| 7497
Query 7498 |CTTCCATGCCCCCGTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCTATGT| 7557
Sbjct 7498 |CTTCCATGCCCCCGTGGAGGGGGAGCCTGGGGATTCGGATTTACGAGCAGGGGTCTATGT| 7557
Query 7558 |CGACGGTCACTAGTGGGGCGACACGGAAGATGTCGTGTCTGCTCAATGTCCTTATCTCT| 7617
Sbjct 7558 |CGACGGTCACTAGTGGGGCGACACGGAAGATGTCGTGTCTGCTCAATGTCCTTATACCT| 7617
Query 7618 |GGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCTCATCAACGCAC| 7677
Sbjct 7618 |GGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCTCATCAACGCAC| 7677
Query 7678 |TGAGCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTCACGCAGTGCTT| 7737
Sbjct 7678 |TGAGCAACTCGTTGCTACGCCATCACAATCTGGTGATTTCACCACCTTCACGCAGTGCTT| 7737
Query 7738 |GCCAAAGGCAGAGAAGATGCATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGG| 7797
Sbjct 7738 |GCCAAAGGCAGAGAAGATGCATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGG| 7797
Query 7798 |ACGTGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAG| 7857
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Query 7858 |AGGAAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAA| 7917
Sbjct 7858 |AGGAAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAA| 7917
Query 7918 |AAGACGTCCTGTGCCATGCCAGAAAGGCCGTAGCCCCACATCAACTCCGTGTGGAAAGACC| 7977
Sbjct 7918 |AAGACGTCCTGTGCCATGCCAGAAAGGCCGTAGCCCCACATCAACTCCGTGTGGAAAGACC| 7977
Query 7978 |TTCTGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAAGAACGAGTCTTCT| 8037
Sbjct 7978 |TTCTGGAAGACAGTGTAAACCAATAGACACTATCATCATGGCCAAAGAACGAGTCTTCT| 8037
Query 8038 |GCGTTACGCTTGAAGGGGGGTGCTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGG| 8097
Sbjct 8038 |GCGTTACGCTTGAAGGGGGGTGCTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGG| 8097
Query 8098 |GCGTGCGGTGTGCGGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCTCCCTGGCCG| 8157
Sbjct 8098 |GCGTGCGGTGTGCGGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCTCCCTGGCCG| 8157
Query 8158 |TGATGGGAAGCTCCTACGGATTCCAATACTACCAAGGACAGCGGGTTGAATTCCTCGTGC| 8217
Sbjct 8158 |TGATGGGAAGCTCCTACGGATTCCAATACTACCAAGGACAGCGGGTTGAATTCCTCGTGC| 8217
Query 8218 |AAGCGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGGACT| 8277
Sbjct 8218 |AAGCGTGAAGTCCAAGAAGACCCCGATGGGGTTCCCGTATGATACCCGCTGTTTGGACT| 8277
Query 8278 |CCACAGTCACGTAGAGCGCACATCCGTACGGAGGAGGCAATTACCAATGTTGTGACCTGG| 8337
Sbjct 8278 |CCACAGTCACGTAGAGCGCACATCCGTACGGAGGAGGCAATTACCAATGTTGTGACCTGG| 8337
Query 8338 |ACCCCCAAGCCCCGCTGGCCATCAAGTCCTCACTGAGAGGCTTTATGTTGGGGGCCCTC| 8397
Sbjct 8338 |ACCCCCAAGCCCCGCTGGCCATCAAGTCCTCACTGAGAGGCTTTATGTTGGGGGCCCTC| 8397
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Sbjct 8398 |TTACCAATTCAAGGGGGGAAACTGCGGCTATCGCAGGTGCCCGCGAGCGGCGTACTGA| 8457
Query 8458 |CAACTAGCTGTGGTAACACCTCACTTGCTACATCAAGGCCCGGGCAGCTGTGAGCCG| 8517

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Sbjct  8518  CAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGGCAGACACTTAGTCGTTATCTGTGAAA  8577
Query  8578  GTGCGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGAGGCTATGACCAGGT  8637
Sbjct  8578  GTGCGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGAGGCTATGACCAGGT  8637
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Sbjct  8638  ACTCCGCCCCCCCCGGGGACCCCCACAACCAAGATACGACTTGGAGCTTATAACATCAT  8697
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Sbjct  8698  GCTCTCCAAAGTGTGCTGCGCCACGACGGCGCTGAAAGAGGGTCTACTACCTTACCC  8757
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Sbjct  8758  GTGACCCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCA  8817
Query  8818  ATTCTTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGA  8877
Sbjct  8818  ATTCTTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGA  8877
Query  8878  TGACCCATTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACCTGTG  8937
Sbjct  8878  TGACCCATTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACCTGTG  8937
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Sbjct  8938  AGATCTACGAGGCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGAC  8997
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Sbjct  8998  TCCATGGGCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAATCAATAGGGTGG  9057
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Sbjct  9058  CCGCATGCTCCAGAAAACCTGCGGCTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGA  9117
Query  9118  GCGTCCGCGTAGGCTTCTGTCCAGAGGAGGCGAGGCTGCCATATGTGGCAAGTACCTCT  9177
Sbjct  9118  GCGTCCGCGTAGGCTTCTGTCCAGGAGGAGGCGAGGCTGCCATATGTGGCAAGTACCTCT  9177
Query  9178  TCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCAATAGCGGGCCGCTGGCCGCTGG  9237
Sbjct  9178  TCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCAATAGCGGGCCGCTGGCCGCTGG  9237
Query  9238  ACTTGTCCGGTGGTTTACGCGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTC  9297
Sbjct  9238  ACTTGTCCGGTGGTTTACGCGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTC  9297
Query  9298  ATGCCCGGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGACGGGGTAGGCATCT  9357
Sbjct  9298  ATGCCCGGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGACGGGGTAGGCATCT  9357
Query  9358  ACCTCTCCCCAACCGGATGAAGGTGGGGTAACACTCC-GGCC  9400
Sbjct  9358  ACCTCTCCCCAACCGGATGAAGATTGGGTAACACTCCAGGCC  9401

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Length=9416

Score = 1.688e+04 bits (9142), Expect = 0.0
Identities = 9318/9404 (99%), Gaps = 7/9404 (0%)
Strand=Plus/Plus

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Sbjct  1      GCCAGCCCCCTGATGGGGGCGACACTCCACCAT-AGATCACTCCCTGTGAGGAACACT  59
Query  60      GTCTTCACGCAGAAAGCGCTAGCCATGGCGTTAGTATGAGTGTGTCGACCGCTCCAGGA  119

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Sbjct 60      |TTTCTTACACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCGACGCTCCAGGA| 119
Query 120      |cccccccTCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA| 179
Sbjct 120      |CCCCCCTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA| 179
Query 180      |GGACGACCGGGTCTTCTTCTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC| 239
Sbjct 180      |GGACGACCGGGTCTTCTTCTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC| 239
Query 240      |CGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAG| 299
Sbjct 240      |CGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAG| 299
Query 300      |GGTGCTTGGCAGTGGCCCGGGAGGTCTCTGAGACGTCGACCATGAGCAGCAATTCCTAAA| 359
Sbjct 300      |GGTGCTTGGCAGTGGCCCGGGAGGTCTCTGAGACGTCGACCATGAGCAGCAATTCCTAAA| 359
Query 360      |CCTCAAAGAAAAACCAACGTAACACCAACCGTCGCCCCAGGACGTCAAGTTCCCGGGT| 419
Sbjct 360      |CCTCAAAGAAAAACCAACGTAACACCAACCGTCGCCCCAGGACGTCAAGTTCCCGGGT| 419
Query 420      |GGCGGTGAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTG| 479
Sbjct 420      |GGCGGTGAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTG| 479
Query 480      |CGCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTGAGCCTATCCCC| 539
Sbjct 480      |CGCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTGAGCCTATCCCC| 539
Query 540      |AAGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCCTGGCCCCCTTAT| 599
Sbjct 540      |AAGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCCTGGCCCCCTTAT| 599
Query 600      |GGCAATGAGGGTTGCGGGTGGCGGGATGGCTCTGTCTCCCGTGGCTCTCGGCCTAGC| 659
Sbjct 600      |GGCAATGAGGGTTGCGGGTGGCGGGATGGCTCTGTCTCCCGTGGCTCTCGGCCTAGC| 659
Query 660      |TGGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTGGGTAAAGTCATCGATACCCCT| 719
Sbjct 660      |TGGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTGGGTAAAGTCATCGATACCCCT| 719
Query 720      |ACGTGCGGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGC| 779
Sbjct 720      |ACGTGCGGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGC| 779
Query 780      |GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACA| 839
Sbjct 780      |GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACA| 839
Query 840      |GGGAACCTTCTCGGTTGCTCTTCTCTATCTTCTTCTGCGCCTGCTCTCTGCGCTGACT| 899
Sbjct 840      |GGGAACCTTCTCGGTTGCTCTTCTCTATCTTCTTCTGCGCCTGCTCTCTGCGCTGACT| 899
Query 900      |GTGCCCGCTTACGCTACCAAGTGCACCAATTCCTCGGGGCTTACCATGTACCAATGAT| 959
Sbjct 900      |GTGCCCGCTTACGCTACCAAGTGCACCAATTCCTCGGGGCTTACCATGTACCAATGAT| 959
Query 960      |TGCCCTAATCGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGT| 1019
Sbjct 960      |TGCCCTAATCGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGT| 1019
Query 1020     |GTCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCAAGGTG| 1079
Sbjct 1020     |GTCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCAAGGTG| 1079
Query 1080     |GCCACACAGGACGGCAAACTCCCCACAACGCAGCTTCGACGTGATATCGATCTGCTTTGTC| 1139
Sbjct 1080     |GCCACACAGGACGGCAAACTCCCCACAACGCAGCTTCGACGTGATATCGATCTGCTTTGTC| 1139
Query 1140     |GGGAGCGCCACCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTT| 1199
Sbjct 1140     |GGGAGCGCCACCTCTGCTCAGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTT| 1199
Query 1200     |GTTGGTCAACTGTTTACCTTCTCTCCAGGCGCACTGGACGACGCAA-GACTGCAATTG| 1258
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Sbjct	1200	 GTTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAG-CTGCAATTG	1258
Query	1259	 TTCATCTATATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACATG	1318
Sbjct	1259	 TTCATCTATATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACATG	1318
Query	1319	 GTCCCCACGGCAGCGTTGGTGGTAGCTCAGTGTCTCCGGATCCCAAGCCATCATGGA	1378
Sbjct	1319	 GTCCCCACGGCAGCGTTGGTGGTAGCTCAGTGTCTCCGGATCCCAAGCCATCATGGA	1378
Query	1379	 CATGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTCTCCATGGTGGG	1438
Sbjct	1379	 CATGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTCTCCATGGTGGG	1438
Query	1439	 GAACGTGGCGAAGGTCTGTAGTGTCTGCTATTTCGGCGGTCGACGGCGAAACCCA	1498
Sbjct	1439	 GAACGTGGCGAAGGTCTGTAGTGTCTGCTATTTCGGCGGTCGACGGCGAAACCCA	1498
Query	1499	 CGTCACGGGGGAAATGCCGGCCGACACCGGCTGGGCTTGTTGGTCTCCTTACACCAGG	1558
Sbjct	1499	 CGTCACGGGGGAAATGCCGGCCGACACCGGCTGGGCTTGTTGGTCTCCTTACACCAGG	1558
Query	1559	 CGCCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCAGATCAATAGCACGGC	1618
Sbjct	1559	 CGCCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCAGATCAATAGCACGGC	1618
Query	1619	 CTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAA	1678
Sbjct	1619	 CTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAA	1678
Query	1679	 ATTCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCCTTACCGATTTTGC	1738
Sbjct	1679	 ATTCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCCTTACCGATTTTGC	1738
Query	1739	 CAGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCCTCGACGACGCCCTTACTG	1798
Sbjct	1739	 CAGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCCTTACGACGACGCCCTTACTG	1798
Query	1799	 CTGGCACTACCTCCAAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGT	1858
Sbjct	1799	 CTGGCACTACCTCCAAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGT	1858
Query	1859	 ATATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTGGGCGCGCCTAC	1918
Sbjct	1859	 ATATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTGGGCGCGCCTAC	1918
Query	1919	 CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAAACAACACGAGCCACCGCT	1978
Sbjct	1919	 CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAAACAACACGAGCCACCGCT	1978
Query	1979	 GGGCAATTGGTTTCGGTTGTACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGC	2038
Sbjct	1979	 GGGCAATTGGTTTCGGTTGTACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGC	2038
Query	2039	 GCCCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTT	2098
Sbjct	2039	 GCCCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTT	2098
Query	2099	 CCGCAAAATATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Sbjct	2099	 CCGCAAAATATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Query	2159	 GTGCATGGTGCATACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT	2218
Sbjct	2159	 GTGCATGGTGCATACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT	2218
Query	2219	 ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCAGAGGCTGGAAGCGGCTGCAACTG	2278
Sbjct	2219	 ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCAGAGGCTGGAAGCGGCTGCAACTG	2278
Query	2279	 GACGCGGGGGCAACGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCCGTTGCT	2338
Sbjct	2279	 GACGCGGGGGCAACGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCCGTTGCT	2338
Query	2339	 GCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCTTGCAGCCTTGTG	2398

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Sbjct 2339 |GCTGTCACACACAGTGGCAGGTCCTTCCGTGTTCTTTACAGACCTGCCAGCCTTGTC| 2398
Query 2399 |CACCGGCCTCATCCACCTCCACCAGAACATTGTGGAGTGCAGTACTTGTACGGGGTAGG| 2458
Sbjct 2399 |CACCGGCCTCATCCACCTCCACCAGAACATTGTGGAGTGCAGTACTTGTACGGGGTAGG| 2458
Query 2459 |GTCAAGCATCGCGTCTCGGGCCATTAAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCT| 2518
Sbjct 2459 |GTCAAGCATCGCGTCTCGGGCCATTAAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCT| 2518
Query 2519 |TGCAGACGCGCGGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC| 2578
Sbjct 2519 |TGCAGACGCGCGGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC| 2578
Query 2579 |GGCTTTGGAGAACCTCGTAATACCAATGCAGCATCCCTGGCCGGAGCAGCGTCTTGT| 2638
Sbjct 2579 |GGCTTTGGAGAACCTCGTAATACCAATGCAGCATCCCTGGCCGGAGCAGCGTCTTGT| 2638
Query 2639 |GTCTTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGC| 2698
Sbjct 2639 |GTCTTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGC| 2698
Query 2699 |GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCTGCTCCTGCTGGCGTTGCCCTAGCG| 2758
Sbjct 2699 |GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCTGCTCCTGCTGGCGTTGCCCTAGCG| 2758
Query 2759 |GGCATAACGACTGGACACGGAGGTGGCCGCGTCTGTGGCGCGTGTGTTCTTGTCGGGT| 2818
Sbjct 2759 |GGCATAACGACTGGACACGGAGGTGGCCGCGTCTGTGGCGCGTGTGTTCTTGTCGGGT| 2818
Query 2819 |AATGGCGTGACTCTGTGCGCATATTACAAGCGCTATATCAGTGGTGATGTGGTGGCT| 2878
Sbjct 2819 |AATGGCGTGACTCTGTGCGCATATTACAAGCGCTATATCAGTGGTGATGTGGTGGCT| 2878
Query 2879 |TCAGTATTTTCTGACACAGTAGAAGCGCAACTGCAGTGTGGGTTCACACGT| 2938
Sbjct 2879 |TCAGTATTTTCTGACACAGTAGAAGCGCAACTGCAGTGTGGGTTCACACGT| 2938
Query 2939 |CCGGGGGGGGCGGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCTTGGTATT| 2998
Sbjct 2939 |CCGGGGGGGGCGGATGCCGTCATCTTACTCATGTGTGTGTAGTACACCCGACCTTGGTATT| 2998
Query 2999 |TGACATACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTT| 3058
Sbjct 2999 |TGACATACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTT| 3058
Query 3059 |GCTTAAAGTCCCTACTTCTGTCGCGTTCAGGCCCTTCTCCGGATCTGCGCGCTAGCGCG| 3118
Sbjct 3059 |GCTTAAAGTCCCTACTTCTGTCGCGTTCAGGCCCTTCTCCGGATCTGCGCGCTAGCGCG| 3118
Query 3119 |GAAGATAGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG| 3178
Sbjct 3119 |GAAGATAGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG| 3178
Query 3179 |CACCTATGTGTATAAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCTGCGAGA| 3238
Sbjct 3179 |CACCTATGTGTATAAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCTGCGAGA| 3238
Query 3239 |TCTGGCCGTGGCTGTGGAACAGTCGCTTTCTCCCGAATGGAGACCAAGCTCATACGTG| 3298
Sbjct 3239 |TCTGGCCGTGGCTGTGGAACAGTCGCTTTCTCCCGAATGGAGACCAAGCTCATACGTG| 3298
Query 3299 |GGGGGCAGATACCGCCGCGTGGCGTGACATCATCAACGGCTTGGCCGCTCTGCCCCGTAG| 3358
Sbjct 3299 |GGGGGCAGATACCGCCGCGTGGCGTGACATCATCAACGGCTTGGCCGCTCTGCCCCGTAG| 3358
Query 3359 |GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGTTGCT| 3418
Sbjct 3359 |GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGTTGCT| 3418
Query 3419 |GGGCCCCATACGGCGTACGCCAGCAGACGAGAGGCTCCTAGGTTGTATAATCACCAG| 3478
Sbjct 3419 |GGGCCCCATACGGCGTACGCCAGCAGACGAGAGGCTCCTAGGTTGTATAATCACCAG| 3478
Query 3479 |CCTGACTGGCCGGGACAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTAC| 3538

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Sbjct 3479 CCTGACTGGCCGGGACAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTAC 3538
Query 3539 CCAAACCTTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACGTGTACCACGGGGCCGG 3598
Sbjct 3539 CCAAACCTTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACGTGTACCACGGGGCCGG 3598
Query 3599 AACGAGGACCATCGCATCACCAAGGGTCCTGTCAATCCAGATGTATACCAATGTGGACCA 3658
Sbjct 3599 AACGAGGACCATCGCATCACCAAGGGTCCTGTCAATCCAGATGTATACCAATGTGGACCA 3658
Query 3659 AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGG 3718
Sbjct 3659 AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGG 3718
Query 3719 CTCTTCGGACCTTTACTTGGTACGAGGACGCGCATGTCAITCCGCTGCGCCGGCGAGG 3778
Sbjct 3719 CTCTTCGGACCTTTACTTGGTACGAGGACGCGCATGTCAITCCGCTGCGCCGGCGAGG 3778
Query 3779 TGATAGCAGGGGTAGCCTGCTTTCGCCCGGGCCATTTCCTACTTGAAGGCTCCTCGGG 3838
Sbjct 3779 TGATAGCAGGGGTAGCCTGCTTTCGCCCGGGCCATTTCCTACTTGAAGGCTCCTCGGG 3838
Query 3839 GGGTCCGCTGTTGTGCCCCGGGACACGCCGTGGGCTATTAGGGCCGGGTGTGCAC 3898
Sbjct 3839 GGGTCCGCTGTTGTGCCCCGGGACACGCCGTGGGCTATTAGGGCCGGGTGTGCAC 3898
Query 3899 CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGACAACCATGAG 3958
Sbjct 3899 CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGACAACCATGAG 3958
Query 3959 ATCCCCGGTGTTCACGGACAACCTCCTCTCCACGACAGTGCCTCAGAGCTTCCAGGTGGC 4018
Sbjct 3959 ATCCCCGGTGTTCACGGACAACCTCCTCTCCACGACAGTGCCTCAGAGCTTCCAGGTGGC 4018
Query 4019 CCACCTGCATGCTCCACCGCAGCGGTAAAGAGCACCAAGGTCCTGGGTGCGTACGACAGC 4078
Sbjct 4019 CCACCTGCATGCTCCACCGCAGCGGTAAAGAGCACCAAGGTCCTGGGTGCGTACGACAGC 4078
Query 4079 CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC 4138
Sbjct 4079 CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC 4138
Query 4139 TTACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGTGAGAACAAATTAC 4198
Sbjct 4139 TTACATGTCCAAGGCCATGGGGTCGATCCTAATATCAGGACCGGGTGAGAACAAATTAC 4198
Query 4199 CACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGGCAGCGGGGTGCTC 4258
Sbjct 4199 CACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGGCAGCGGGGTGCTC 4258
Query 4259 AGGAGGTGCTTATGACATAAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCAT 4318
Sbjct 4259 AGGAGGCGCTTATGACATAAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCAT 4318
Query 4319 CTTGGGCATCGGCACGTGCTTGTACCAAGCAGAGACTGCGGGGGCGAGACTGGTGTGCT 4378
Sbjct 4319 CTTGGGCATCGGCACGTGCTTGTACCAAGCAGAGACTGCGGGGGCGAGATTGGTGTGCT 4378
Query 4379 CGCCACTGCTACCCCTCGGGCTCCGTCAGTGTGCCATCCTAACATCGAGGAGGTTCG 4438
Sbjct 4379 CGCCACTGCTACCCCTCGGGCTCCGTCAGTGTGCCATCCTAACATCGAGGAGGTTCG 4438
Query 4439 TCTGTCCACCACGGAGAGATCCCCCTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCA 4497
Sbjct 4439 TCTGTCCACCACGGAGAGATCCC-TTCTACGGCAAGGCTATCCCCCTCGAGGTGATCA 4497
Query 4498 AGGGGGGAAGACATCTCATCTTCTGCCACTCAAGAAGAAGTGCACGAGCTCGCCGCGA 4557
Sbjct 4498 AGGGGGGAAGACATCTCATCTTCTGTGCTCAAGAAGAAGTGCACGAGCTCGCCGCGA 4557
Query 4558 AGCTGGTGCATTGGGCATCAATGCCGTGGCTACTACCGCGGTCTTGACGTGTCTGTCA 4617
Sbjct 4558 AGCTGGTGCATTGGGCATCAATGCCGTGGCTACTACCGCGGATTCAGCTGTCTGTCA 4617
Query 4618 TCCGACCAGCGCGCATGTTGTCGTGTCGACCGCATGCTCTCATGACTGGCTTTACCG 4677
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Sbjct  4618  TCCCGACCAACACGGCGATGTTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCG 4677
Query  4678  GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTGCTACAGACAGTCGATTTCAGCC 4737
Sbjct  4678  GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTGCTACAGACAGTCGATTTCAGCC 4737
Query  4738  TTGACCCTACCTTTTACCATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTC 4797
Sbjct  4738  TTGACCCTACCTTTTACCATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTC 4797
Query  4798  AACGCCGGGGGAGGACTGGCAGGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGG 4857
Sbjct  4798  AGCGCCGGGGGAGGACTGGCAGGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGG 4857
Query  4858  AGCGCCCTCCGGCATGTTGACATCGTCGCTCTCTGTGAGTGCATGACCGGGCTGTG 4917
Sbjct  4858  AGCGCCCTCCGGCATGTTGACATCGTCGCTCTCTGTGAGTGCATGACCGGGCTGTG 4917
Query  4918  CTGGTATGAGCTCAGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC 4977
Sbjct  4918  CTGGTATGAGCTCAGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC 4977
Query  4978  CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTTACGGGCTCA 5037
Sbjct  4978  CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTTACGGGCTCA 5037
Query  5038  CTCATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAAGTTTCCCTTACC 5097
Sbjct  5038  CCCATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAAGTTTCCCTTACC 5097
Query  5098  TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCTGTGGGACC 5157
Sbjct  5098  TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCTGTGGGACC 5157
Query  5158  AGATGTGGAAGTGTGTTGATCCGCCTTAAACCCACCCCTCCATGGGGCAACACCCCTGCTAT 5217
Sbjct  5158  AGATGTGGAAGTGTGTTGATCCGCCTTAAACCCACCCCTCCATGGGGCAACACCCCTGCTAT 5217
Query  5218  ACAGACTGGGCGTGTTCAGAATGAAGTACCCCTGACGCACCCAAATCACCAAATACATCA 5277
Sbjct  5218  ACAGACTGGGCGTGTTCAGAATGAAGTACCCCTGACGCACCCAAATCACCAAATACATCA 5277
Query  5278  TGACATGCAATGTCGGCCGACCTGGAGGTGCTCAGCAGCACCTGGGTGCTCGTTGGCGGG 5337
Sbjct  5278  TGACATGCAATGTCGGCCGACCTGGAGGTGCTCAGCAGCACCTGGGTGCTCGTTGGCGGG 5337
Query  5338  TCTGGCTGCTCTGGCCGCGTATTGCCGTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGA 5397
Sbjct  5338  TCTGGCTGCTCTGGCCGCGTATTGCCGTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGA 5397
Query  5398  TCGTCTGTGTCGGGAAGCCGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTTCG 5457
Sbjct  5398  TGTGCTGTGTCGGGAAGCCGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTTCG 5457
Query  5458  ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG 5517
Sbjct  5458  ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG 5517
Query  5518  AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGGTCGCCCATCGAGAGGTTA 5577
Sbjct  5518  AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGGTCGCCCATCGAGAGGTTA 5577
Query  5578  TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGT 5637
Sbjct  5578  TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGT 5637
Query  5638  GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCCG 5697
Sbjct  5638  GGAATTTTCATCAGTGGGATACAATATTGGCGGGCTGTCAACGCTGCTGGTAACCCCG 5697
Query  5698  CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACCTGGCCAAA 5757
Sbjct  5698  CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACCTGGCCAAA 5757
Query  5758  CCTCTCTTCAACATATTGAGGAGGAGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG 5817
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Sbjct	5758	CCCTCTCTCTTCAACATATTTGGGGGGGTGGGTGGCTGCCAGCTGCCGCCCGCGGTGCCG	5817
Query	5818	CTACTGCCCTTTGGGTGCTGGCTAGCTGGCGCCGCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	CTACCGCCTTTGGGGCGCTGGCTTAGCTGGCGCCGCATCGGCAGCGTTGGACTGGGGA	5877
Query	5878	AGGTCTCTGTTGGACATTTCTTGACAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCTCTGTTGGACATTTCTTGACAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Query	5938	TCAAGATCATAGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938	TCAAGATCATAGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCCAGCAATACTGCGCCGGCAGC	6057
Sbjct	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCCAGCAATACTGCGCCGGCAGC	6057
Query	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Query	6118	GGAAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGACGCCGCCCGCGTCACTG	6177
Sbjct	6118	GGAAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGACGCCGCCCGCGTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTACATCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTACCACCTCCATGCTCCGGTTCTTGGCTAAGGGACATCTGGGACTGGATATGCC	6297
Sbjct	6238	CGGAGTGTACCACCTCCATGCTCCGGTTCTTGGCTAAGGGACATCTGGGACTGGATATGCC	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAAGCTCATGCCACAACCTGCTGGGA	6357
Sbjct	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAAGCTCATGCCACAACCTGCTGGGA	6357
Query	6358	TTCCCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAATGC	6417
Sbjct	6358	TTCCCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAATGC	6417
Query	6418	ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Sbjct	6418	ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Query	6478	TCGTGGTCTTAGGACCTCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACA	6537
Sbjct	6478	TCGTGGTCTTAGGACCTCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACA	6537
Query	6538	CCACGGGCCCCGTGACTCCCCCTCTGCGCCGAACATAAGTTCCGCGTGTGGAGGGTGT	6597
Sbjct	6538	CCACGGGCCCCGTGACTCCCCCTCTGCGCCGAACATAAGTTCCGCGTGTGGAGGGTGT	6597
Query	6598	CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCACCTACGTATCGGGTATGA	6657
Sbjct	6598	CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCACCTACGTATCGGGTATGA	6657
Query	6658	CTACTGACAATCTTAAATGCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAAATTG	6717
Sbjct	6658	CTACTGACAATCTTAAATGCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAAATTG	6717
Query	6718	ACGGGGTGGCCTACACAGGTTTGGGCCCCCTTGCAAGCCCTTGTGCGGGAGGAGGTAT	6777
Sbjct	6718	ACGGGGTGGCCTACACAGGTTTGGGCCCCCTTGCAAGCCCTTGTGCGGGAGGAGGTAT	6777
Query	6778	CATTACAGATAGGACTCCACAGTACCAGTGGGGTGCATATACCTTGCAGGCCGAAC	6837
Sbjct	6778	CATTACAGATAGGACTCCACAGTACCAGTGGGGTGCATATACCTTGCAGGCCGAAC	6837
Query	6838	CGGACGTAGCCGTGTGTACGCTCATCTACTGATCCCTCCCATATAACAGCAGAGCGGG	6897
Sbjct	6838	CGGACGTAGCCGTGTGTACGCTCATCTACTGATCCCTCCCATATAACAGCAGAGCGGG	6897
Query	6898	CCGGGAGAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGC	6957

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Sbjct      6898      |||
CCGGGAGAAAGTTGGCGAGAGGGTACACCCCTTCTATGGCCAGCTCCTCGGCCAGCCAGC 6957
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Sbjct      6958      |TGTCGCGTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGC 7017
Query      7018      |TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGCGCGCAACATCACCAGGGTTGAGT 7077
Sbjct      7018      |TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGCGCGCAACATCACCAGGGTTGAGT 7077
Query      7078      |CAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCCGCTTGTGGCAGAGGAGGATGAGC 7137
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Query      7138      |GGGAGGTCTCCGTACTCTGAGAGAAATCTGCGGAAGTCTCGGAGATTGCCCGGGCCCTGC 7197
Sbjct      7138      |GGGAGGTCTCCGTACCCGAGAAATCTGCGGAAGTCTCGGAGATTGCCCGGGCCCTGC 7197
Query      7198      |CCGCTTGGGCGCGGCCGGACTACAACCCCGCTAGTAGAGACGTGGAAGAAAGCCTGACT 7257
Sbjct      7198      |CCGTTTGGGCGCGGCCGGACTACAACCCCGCTAGTAGAGACGTGGAAGAAAGCCTGACT 7257
Query      7258      |ACGAACCACTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCTC 7317
Sbjct      7258      |ACGAACCACTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCTC 7317
Query      7318      |CGCCTCGGAAAAAGCGTACGGTGGTCTCACCAGATCAACCTATCTACTGCCTTGGCCG 7377
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Sbjct      7558      |CGACGGTCAGTAGTGGGCGGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATACCT 7617
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Sbjct      7678      |TGAGCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTACGCGAGTGCTT 7737
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Query      7918      |AAGACGTCCTGTGCCATGCCAGAAAGGCCGTAGCCCAATCAACTCCGTGTGAAAGACC 7977
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Query      7978      |TTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTCT 8037
Sbjct      7978      |TTCTGGAAGACAGTGTAACACCAATAGACACTATCATCATGGCCAAGAACGAGGTTTCT 8037
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Sbjct	8038	CGCTTCAGCCTGAGAAGGGGGGCTGTAAGCCAGCTCGTCTCATCGTGTCCCCGACCTGG	8097
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Query	8158	TGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGC	8217
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Query	8518	CAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAA	8577
Sbjct	8518	CAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAA	8577
Query	8578	GTGCGGGGTGCCAGGAGACCGCGCGCTGAGAGCCTTACCGAGGCGATGACGAGGT	8637
Sbjct	8578	GTGCGGGGTGCCAGGAGACCGCGCGCTGAGAGCCTTACCGAGGCGATGACGAGGT	8637
Query	8638	ACTCCGCCCCCCCCGGGGACCCCCACAAACGAAATACGACTTGGAGCTTATAACATCAT	8697
Sbjct	8638	ACTCCGCCCCCCCCGGGGACCCCCACAAACGAAATACGACTTGGAGCTTATAACATCAT	8697
Query	8698	GCTCCTCCAACGTGTCACTCGCCACGACGCGCTGGAAGAGGGTCTACTACCTTACCC	8757
Sbjct	8698	GCTCCTCCAACGTGTCACTCGCCACGACGCGCTGGAAGAGGGTCTACTACCTTACCC	8757
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Sbjct	8818	ATTCTTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGA	8877
Query	8878	TGACCCATTTCITTAGCGTCCCTATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGTG	8937
Sbjct	8878	TGACCCATTTCITTAGCGTCCCTATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGTG	8937
Query	8938	AGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGAC	8997
Sbjct	8938	AGATCTACGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGAC	8997
Query	8998	TCCATGGCCTCAGCGCATTTTACTCCACAGTTACTCTCCAGGTGAATCAATAGGGTGG	9057
Sbjct	8998	TCCATGGCCTCAGCGCATTTTACTCCACAGTTACTCTCCAGGTGAAGTCAATAGGGTGG	9057
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Query	9118	CGCTCCGCGCTAGGCTTCTGTGTCAGGAGGAGCGGCTGCCATATGTGCAAGTACCTCT	9177
Sbjct	9118	CGCTCCGCGCTAGGCTTCTGTGTCAGGAGGAGCGGCTGCCATATGTGCAAGTACCTCT	9177
Query	9178	TCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGGCGTGGCGGGTGG	9237


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Sbjct  9178  TCAACTGGGCAGTAAGAACAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGG 9237
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Sbjct  9238  ACTTGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTATACAGCGGTGTCTC 9297
Query   9298  ATGCCCGGCCCGGCTGGTTCGTGTTTGCCTACTCCTGCTCGCTGACGGGGTAGGCATCT 9357
Sbjct  9298  ATGCCCGGCCCGGCTGGTTCGTGTTTGCCTACTCCTGCTCGCTGACGGGGTAGGCATCT 9357
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Sbjct  9358  ACCTCCTCCCCAACCGGTGAAGATTGGGCTAACCACTCCAGGCC 9401

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>emb|GM680540.1| Sequence 13 from Patent EP1947185
Length=9416

Score = 1.688e+04 bits (9140), Expect = 0.0
Identities = 9326/9418 (99%), Gaps = 4/9418 (0%)
Strand=Plus/Plus

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Sbjct   1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAACTACTG 60

Query   61      TCTTCACGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA 120
Sbjct   61      TCTTCACGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA 120

Query   121     ccccccTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
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Query   181      GACGACCGGGTCTCTTCTTGATATAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC 240
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Query   241      GCAAGACTGTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTGTGGTACTGCCTGATAGG 300
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Query   361      CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG 420
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Query   421      GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGTCGCCGACAGGGGCCCTAGATTGGGTGTGC 480
Sbjct   421      GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGTCGCCGACAGGGGCCCTAGATTGGGTGTGC 480

Query   481      GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGAGCTCAGCCTATCCCCA 540
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Query   541      AGGCACGTTCGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTTGGCCCCCTCTATG 600
Sbjct   541      AGGCACGTTCGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTTGGCCCCCTCTATG 600

Query   601      GCAATGAGGGTTTCGGGTTGGCGGGATGGCTCCTGTCTCCCGTGCGCTCTCGGCCTAGCT 660
Sbjct   601      GCAATGAGGGTTTCGGGTTGGCGGGATGGCTCCTGTCTCCCGTGCGCTCTCGGCCTAGCT 660

Query   661      GGGGCCCCACAGACCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA 720
Sbjct   661      GGGGCCCCACAGACCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA 720

Query   721      CGTGGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGGC 780
Sbjct   721      CGTGGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGGC 780

Query   781      CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGCGCTGAACATGCAACAG 840

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Sbjct	841	GGAACTCTCTGGTTGCTCTTTCTCTATCTTCCTCTGGCCCTGCTCTCTGGCCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCTCGACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTGTGTGTGTACGAGGCGGCCGATGCCATCTCGACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGGCTTTCGCGAGGGTAAACGCTCGAGGTGTGGGTGGCGGTGACCCCACGGTGG	1080
Sbjct	1021	TCCCTTGGCTTTCGCGAGGGTAAACGCTCGAGGTGTGGGTGGCGGTGACCCCACGGTGG	1080
Query	1081	CCACAGGGACGGCAAACTCCCCAACGCGAGTCTCGAGCTCATATCGATCTGCTTGTGCG	1140
Sbjct	1081	CCACAGGGACGGCAAACTCCCCAACGCGAGTCTCGAGCTCATATCGATCTGCTTGTGCG	1140
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Sbjct	1141	GGAGCGCACACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Query	1201	TGGTCAACTGTTTACCTTCTCTCCAGGCGCCATGGACAGCAGAAGACTGCAATTGTT	1260
Sbjct	1201	TGGTCAACTGTTTACCTTCTCTCCAGGCGCCATGGACAGCAGAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAGTGGT	1320
Sbjct	1261	CTATCTATCCCGGCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAGTGGT	1320
Query	1321	CCCCTAGCGAGCTTGGTGTAGTCAGCTGCTCCGGAATCCCAAGCATCATGAGCA	1380
Sbjct	1321	CCCCTAGCGAGCTTGGTGTAGTCAGCTGCTCCGGAATCCCAAGCATCATGAGCA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGAGTCTGCGCGGCATAGCGTATTCTCCATGTTGGGGA	1440
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Query	1441	ACTGGGCGAAGTCTCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGTCTCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCGGGCCGCACACCGCTGGGCTTGTGGTCTCCTTACACAGGCGG	1560
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Sbjct	1561	CCAAGCAGAACATCCAACGTATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
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Query	1801	GGCACTACCCCTCAAGACCTTGTGGCATGTGCCCCGAAAGAGCGTGTGTGGCCCGGTAT	1860
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Sbjct	1861	ATTGCTTCACTCCAGCCCGGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCTACCT	1920
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Sbjct	1921		ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGCTCTTAACAACACACAGGCCACCGCTGG	1980
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Sbjct	1981		GCAATTGGTTTCGGTTGTACCTGGATGAATCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
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Sbjct	2041		CCCCCTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCACTGATTGCTTCC	2100
Query	2101		GCAAACATCCGGAAGCCACATACCTCTCGGTGGGCTCCGGTCCCTGGATTACACCCAGGT	2160
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Query	2161		GCATGGTGCAGCTACCCGTATAGGCTTTGGCACTATCCTTGACATCAATTACACATAT	2220
Sbjct	2161		GCATGGTGCAGCTACCCGTATAGGCTTTGGCACTATCCTTGACATCAATTACACATAT	2220
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Sbjct	2221		TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGCTGGAAGCGGCTGCAACTGGA	2280
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Query 3721 CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCTGTCGCGCGCGAGGTG 3780
Sbjct 3721 CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCTGTCGCGCGCGAGGTG 3780
Query 3781 ATAGCAGGGGTAGCCTGCTTTTCGCCCGGCCCAATTCCTACTTGAAGGGCTCCTCGGGGG 3840
Sbjct 3781 ATAGCAGGGGTAGCCTGCTTTTCGCCCGGCCCAATTCCTACTTGAAGGGCTCCTCGGGGG 3840
Query 3841 GTCCGCTGTGTGTCGCCCGCGGACACGCCGTGGGCTATTACGGGCGCGGTGTGACCC 3900
Sbjct 3841 GTCCGCTGTGTGTCGCCCGCGGACACGCCGTGGGCTATTACGGGCGCGGTGTGACCC 3900
Query 3901 GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT 3960
Sbjct 3901 GTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT 3960
Query 3961 CCCCGGTGTTACCGGACAACTCCTCTCCACCAGCAGTGCCTCAGAGCTTCCAGGTGGCC 4020
Sbjct 3961 CCCCGGTGTTACCGGACAACTCCTCTCCACCAGCAGTGCCTCAGAGCTTCCAGGTGGCC 4020
Query 4021 ACCTGCATGCTCCACCGGACGCGTAAAGAGCACCAAGGTCCCGGTGCGTACGACGCC 4080
Sbjct 4021 ACCTGCATGCTCCACCGGACGCGTAAAGAGCACCAAGGTCCCGGTGCGTACGACGCC 4080
Query 4081 AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGTGCAACAGCTGGGCTTTGGTGCT 4140
Sbjct 4081 AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGTGCAACAGCTGGGCTTTGGTGCT 4140
Query 4141 ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATTACCA 4200
Sbjct 4141 ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATTACCA 4200
Query 4201 CTGGCAGCCCATCACGTACTCCACCTACGGCAAGTTCCTTGGCAGCGCGGGTGCTCAG 4260
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Sbjct 4201 |CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCCTTGCCGACGCCGGGTGCTCAG| 4260
Query 4261 |GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT| 4320
Sbjct 4261 |GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT| 4320
Query 4321 |TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG| 4380
Sbjct 4321 |CGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG| 4380
Query 4381 |CCACTGTACCCCTCCGGGCTCCGTCACGTGTGTCCTTCCCTAACATCGAGGAGGTTGCTC| 4440
Sbjct 4381 |CCACTGTACCCCTCCGGGCTCCGTCACGTGTGTCCTTCCCTAACATCGAGGAGGTTGCTC| 4440
Query 4441 |GTGCCACACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCTTCGAGTGATCAAGG| 4500
Sbjct 4441 |GTGCCACACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCTTCGAGTGATCAAGG| 4500
Query 4501 |GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGC| 4560
Sbjct 4501 |GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGC| 4560
Query 4561 |TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC| 4620
Sbjct 4561 |TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC| 4620
Query 4621 |CGACCAGCGGCGATGTTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG| 4680
Sbjct 4621 |CGACCAGCGGCGATGTTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG| 4680
Query 4681 |ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCCTT| 4740
Sbjct 4681 |ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCCTT| 4740
Query 4741 |ACCTTACCTTTTACCATTTAGACAACCAACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC| 4800
Sbjct 4741 |ACCTTACCTTTTACCATTTAGACAACCAACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC| 4800
Query 4801 |GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGGAGC| 4860
Sbjct 4801 |GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGGAGC| 4860
Query 4861 |GCCCTCCGGCATGTTTCGACTCGTCCGTCCCTCTGTGAGTGCTATGACCGGGCTGTGCTT| 4920
Sbjct 4861 |GCCCTCCGGCATGTTTCGACTCGTCCGTCCCTCTGTGAGTGCTATGACCGGGCTGTGCTT| 4920
Query 4921 |GGTATGAGCTCAGCCCCCGGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG| 4980
Sbjct 4921 |GGTATGAGCTCAGCCCCCGGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG| 4980
Query 4981 |GGCTTCCCGTGTGCCAGGACCATCTTGAAATTTGGGAGGGCGCTTTTACGGGCTCACTC| 5040
Sbjct 4981 |GGCTTCCCGTGTGCCAGGACCATCTTGAAATTTGGGAGGGCGCTTTTACGGGCTCACTC| 5040
Query 5041 |ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAAGCTTTCCCTTACCTGG| 5100
Sbjct 5041 |ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAAGCTTTCCCTTACCTGG| 5100
Query 5101 |TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGGCCCTCCCCCATCTGTGGGACCAGA| 5160
Sbjct 5101 |TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGGCCCTCCCCCATCTGTGGGACCAGA| 5160
Query 5161 |TGTGGAAGTGTTTGTATCCGCCCTTAAACCCACCCCTCCATGGGGCAACACCCCTGCTATACA| 5220
Sbjct 5161 |TGTGGAAGTGTTTGTATCCGCCCTTAAACCCACCCCTCCATGGGGCAACACCCCTGCTATACA| 5220
Query 5221 |GACTGGGCGCTGTTTCAAGATGAAGTACCCCTGACGCACCAATCACCACAAATACATCATGA| 5280
Sbjct 5221 |GACTGGGCGCTGTTTCAAGATGAAGTACCCCTGACGCACCAATCACCACAAATACATCATGA| 5280
Query 5281 |CATGCATGTCGGCCGACCTGGAGTTCGTACGAGCACTGGGTGTCGTTGGCGGGCTCC| 5340
Sbjct 5281 |CATGCATGTCGGCCGACCTGGAGTTCGTACGAGCACTGGGTGTCGTTGGCGGGCTCC| 5340
Query 5341 |TGGCTGCTTGCCCGCTATTGCTGTCAACAGGCTGCGTGGTTCATAGTGGGACGAGATCG| 5400
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Sbjct 5341 TGGCTGCTCTGGCCGCGTATTGCCCTGTCAACAGGCTGCGTGGTCTAGATGGGCAGGATCG 5400
Query 5401 TCTTGTCCGGGAAGCGCGGAATTATACCTGCAGGAGGTTCTCTACAGGAGTTCGATTG 5460
|||||
Sbjct 5401 TCTTGTCCGGGAAGCGCGGAATTATACCTGCAGGAGGTTCTCTACAGGAGTTCGATTG 5460
Query 5461 AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC 5520
Sbjct 5461 AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC 5520
Query 5521 AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCC GCCATCGAGAGGTTATCA 5580
Sbjct 5521 AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCC GCCATCGAGAGGTTATCA 5580
Query 5581 CCCCTGCTGTCTCAGACCAACTGGCAGAACTCGAGGCTCTTTTGGCGCAAGACATGTGGA 5640
Sbjct 5581 CCCCTGCTGTCTCAGACCAACTGGCAGAACTCGAGGCTCTTTTGGCGCAAGACATGTGGA 5640
Query 5641 ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCCA 5700
Sbjct 5641 ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCCA 5700
Query 5701 TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC 5760
Sbjct 5701 TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC 5760
Query 5761 TCCTCTTCAACATATTgggggggTGGTGGCTGCCAGCTCGCCGCCCGCCGGTCCGCTA 5820
Sbjct 5761 TCCTCTTCAACATATTGGGGGGGTGGTGGCTGCCAGCTCGCCGCCCGCCGGTCCGCTA 5820
Query 5821 CTGCTTTTGGGGTGTGGCTAGCTGGCGCCGC-CATCGGCAGCGTTGGACTGGGGAAG 5879
Sbjct 5821 CCGCTTTTGGGGTGTGGCTAGCTGGCGCCGCAC-TCGACAGCGTTGGACTGGGGAAG 5879
Query 5880 GTCTCTGTGGACATTCCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAATC 5939
Sbjct 5880 GTCTCTGTGGACATTCCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAATC 5939
Query 5940 AAGATCATGAGCGGTGAGTGCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATC 5999
Sbjct 5940 AAGATCATGAGCGGTGAGTGCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATC 5999
Query 6000 CTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTT 6059
Sbjct 6000 CTCTCACCTGGAGCCCTTGCAGTCGGTGTGGTCTTTCATCAATACTGCGCCGGCGTGT 6059
Query 6060 GGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGG 6119
Sbjct 6060 GGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGG 6119
Query 6120 AACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCGCCCGCGCTCACTGCC 6179
Sbjct 6120 AACCATGTTTCCCCACACACTACGTGCCGGAGAGCGATGCAGCGCCCGCGCTCACTGCC 6179
Query 6180 ATACTCAGCAGCCTCACTGTAAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG 6239
Sbjct 6180 ATACTCAGCAGCCTCACTGTAAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG 6239
Query 6240 GAGTGTACCCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG 6299
Sbjct 6240 GAGTGTACCCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG 6299
Query 6300 GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT 6359
Sbjct 6300 GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT 6359
Query 6360 CCTTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC 6419
Sbjct 6360 CCTTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC 6419
Query 6420 ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC 6479
Sbjct 6420 ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC 6479
Query 6480 GTCGGTCTTAGGACCTGCAGGAACATGTGGATGGGACGTTCCCATTAACGCCTACACC 6539
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Sbjct	6480	GTGCGTCTTAGGACCTGCAAGAACATGTGGAGTGGGACGTTCTTCATTAATGCTACACC	6539
Query	6540	ACGGGGCCCTGTACTCCCCCTTCTGCGCCGAACATAAAGTTTCGCGCTGTGGAGGGTGCT	6599
Sbjct	6540	ACGGGGCCCTGTACTCCCCCTTCTGCGCCGAACATAAAGTTTCGCGCTGTGGAGGGTGCT	6599
Query	6600	GCAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACT	6659
Sbjct	6600	GCAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGCATGACT	6659
Query	6660	ACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTTCACAGAATTGGAC	6719
Sbjct	6660	ACTGACAATCTCAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTTCACAGAATTGGAC	6719
Query	6720	GGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCA	6779
Sbjct	6720	GGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCA	6779
Query	6780	TTCAGAGTAGGACTCCACAGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCGGAACCG	6839
Sbjct	6780	TTCAGAGTAGGACTCCACAGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCGGAACCG	6839
Query	6840	GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCC	6899
Sbjct	6840	GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCC	6899
Query	6900	GGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
Sbjct	6900	GGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
Query	6960	TCCGCTCCATCTCTCAAGGCAACTTGACACGCCCAACCATGACTCCCTGACGCCGAGCTC	7019
Sbjct	6960	TCCGCTCCATCTCTCAAGGCAACTTGACACGCCCAACCATGACTCCCTGACGCCGAGCTC	7019
Query	7020	ATAGAGGCTAACCTCTTGTTGGAGGACAGGATGGGCGGCAACATCACAGGGTTGAGTCA	7079
Sbjct	7020	ATAGAGGCTAACCTCTTGTTGGAGGACAGGATGGGCGGCAACATCACAGGGTTGAGTCA	7079
Query	7080	GAGAACAAAGTGGTGATTCTGGACTFCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
Sbjct	7080	GAGAACAAAGTGGTGATTCTGGACTFCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
Query	7140	GAGGTCTCCGTACCTGCAAGAAATCTGCGGAAGTCTCGGAGATTTCGCCCGGGCCCTGCC	7199
Sbjct	7140	GAGGTCTCCGTACCCGCAAGAAATCTGCGGAAGTCTCGGAGATTTCGCCCGAGCCCTGCC	7199
Query	7200	GTCTGGGCGCGCCGGACTACAACCCCCGCTAGTAGAGAGCTGGAAAAGCCTGACTAC	7259
Sbjct	7200	GTCTGGGCGCGCCGGACTACAACCCCCGCTAGTAGAGAGCTGGAAAAGCCTGACTAC	7259
Query	7260	GAACCACCTGTGGTCCATGGCTGCCCGCTACCACTTCACGGTCCCTCTGTGCCCTCG	7319
Sbjct	7260	GAACCACCTGTGGTCCATGGCTGCCCGCTACCACTTCACAGGTCCTCTGTGCCCTCG	7319
Query	7320	CCTCGGAAAAGCGTACGGTGGTCCTCACCAGATCAACCCATCTACTGCCTTGGCCGAG	7379
Sbjct	7320	CCTCGGAAAAGCGTACGGTGGTCCTCACCAGATCAACCCATCTACTGCCTTGGCCGAG	7379
Query	7380	CTTGCCACCAAAGTTTTTGGCAGCTFCTCAACTTCCGGCATTACGGGGGACAATACGACA	7439
Sbjct	7380	CTTGCCACCAAAGTTTTTGGCAGCTFCTCAACTTCCGGCATTACGGGGGACAATACGACA	7439
Query	7440	ACATCTCTTGAGCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCT	7499
Sbjct	7440	ACATCTCTTGAGCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCT	7499
Query	7500	TCCATGAGGGGGTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGTCG	7559
Sbjct	7500	TCCATGAGGGGGTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCAGCGGTGATGTCG	7559
Query	7560	ACGGTCAGTAGTGGGGCCGACGGAAGATGTGCTGTGCTGCTCAATGTCCTATTCTCG	7619
Sbjct	7560	ACGGTCAGTAGTGGGGCCGACGGAAGATGTGCTGTGCTGCTCAATGTCCTATTCTCG	7619
Query	7620	ACAGGGCGCACTCGTACCCCGTGCCTGCGGAGAGACAAAACTGCCCATCAACGCACTG	7679

Sbjct	7620	ACAGGCGCACTCGTACCCCGTGGCTGCGGAGGAACAAAACTGCCATCAACGCACTG	7679
Query	7680	AGCAACTCGTTGCTTACGCCATCACAATCGTGTATTCCACCACCTTACGCAAGTCTTCG	7739
Sbjct	7680	AGCAACTCGTTGCTTACGCCATCACAATCGTGTATTCCACCACCTTACGCAAGTCTTCG	7739
Query	7740	CAAAGGCAGAAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC	7799
Sbjct	7740	CAAAGGAAGAAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC	7799
Query	7800	GTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAAGTGAAGGCTAACTTGCATATCCGTAGAG	7859
Sbjct	7800	GTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAAGTGAAGGCTAACTTGCATATCCGTAGAG	7859
Query	7860	GAAGCTTGCAGCCTGACGCCCCCACCATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
Sbjct	7860	GAAGCTTGCAGCCTGCGCGCCCCCACCATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
Query	7920	GACGTCCTGTGCCATGCCAGAAAGGCGGTAGCCACATCAACTCCGTGTGGAAGACCTT	7979
Sbjct	7920	GACGTCCTGTGCCATGCCAGAAAGGCGGTAGCCACATCAACTCCGTGTGGAAGACCTT	7979
Query	7980	CTGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAGAACGAGGTTTCTCG	8039
Sbjct	7980	CTGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAGAACGAGGTTTCTCG	8039
Query	8040	GTTACGCTTGAGAAGGGGGTCTGAAGCAGCTCGTCTCATCTGTTTCCCGACCTGGGC	8099
Sbjct	8040	GTTACGCTTGAGAAGGGGGTCTGAAGCAGCTCGTCTCATCTGTTTCCCGACCTGGGC	8099
Query	8100	GTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCGTGGCCGTG	8159
Sbjct	8100	GTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCGTGGCCGTG	8159
Query	8160	ATGGGAAGCTCCTACGGATTCCAATACTACCAAGACAGCGGGTTGAATTCCTCGTGCAA	8219
Sbjct	8160	ATGGGAAGCTCCTACGGATTCCAATACTACCAAGACAGCGGGTTGAATTCCTCGTGCAA	8219
Query	8220	GCGTGAAGTCCAAGAAGACCCGATGGGGCTCTCGTATGATACCCTGCTTTTGTACTCC	8279
Sbjct	8220	GCGTGAAGTCCAAGAAGACCCGATGGGGCTCTCGTATGATACCCTGCTTTTGTACTCC	8279
Query	8280	ACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGAC	8339
Sbjct	8280	ACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGAC	8339
Query	8340	CCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGCCCTCTT	8399
Sbjct	8340	CCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGCCCTCTT	8399
Query	8400	ACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCCGCGAGCGGCGTACTGACA	8459
Sbjct	8400	ACTAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCCGCGAGCAGAGTACTGACA	8459
Query	8460	ACTAGCTGTGTATACACCTTCACTTGCATACATCAAGGCCCGGGCAGCCTGTGAGCCGCA	8519
Sbjct	8460	ACTAGCTGTGTATACACCTTCACTTGCATACATCAAGGCCCGGGCAGCCTGTGAGCCGCA	8519
Query	8520	GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT	8579
Sbjct	8520	GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT	8579
Query	8580	GCGGGGGTCCAGAGGACGCGGCGAGCCTGAGAGCCTTACCGGAGGCTATGACCAGGTAC	8639
Sbjct	8580	GCGGGGGTCCAGAGGACGCGGCGAGCCTGAGAGCCTTACCGGAGGCTATGACCAGGTAC	8639
Query	8640	TCCGCGCGCGCGGAGCGCCCAACACCAAGAAATACGACTTGGAGCTTATAACATCATGC	8699
Sbjct	8640	TCCGCGCGCGCGGAGCGCCCAACACCAAGAAATACGACTTGGAGCTTATAACATCATGC	8699
Query	8700	TCTTCCAAGTGTGTCAGTCGCCACAGCGGCGCTGGAAGAGGGTCTACTACCTTACCCGT	8759
Sbjct	8700	TCTTCCAAGTGTGTCAGTCGCCACAGCGGCGCTGGAAGAGGGTCTACTACCTTACCCGT	8759
Query	8760	GACCTTACAACCCCCCTCGGAGAGCGCGTGGGAGACAGCAAGACACTCCAGTCAAT	8819


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Sbjct 8760      |GACCCACACACCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTCAAT| 8819
Query 8820      |TCCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATG| 8879
Sbjct 8820      |TCCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATG| 8879
Query 8880      |ACCCATTTCCTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAG| 8939
Sbjct 8880      |ACCCACTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTCAACTGCGAG| 8939
Query 8940      |ATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTC| 8999
Sbjct 8940      |ATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTC| 8999
Query 9000      |CATGGCCTCAGGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCC| 9059
Sbjct 9000      |CATGGCCTCAGGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCC| 9059
Query 9060      |GCATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCGGAGC| 9119
Sbjct 9060      |GCATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCTGGAGC| 9119
Query 9120      |GTCGCGCTAGGCTTCTGTCCAGAGGAGGAGGGCTGCCATATGTGGCAAGTACCTCTTC| 9179
Sbjct 9120      |GTCGCGCTAGGCTTCTGTCCAGAGGAGGCAAGGCTGCCATATGTGGCAAGTACCTCTTC| 9179
Query 9180      |AACTGGGCGAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCGCTGGCCGGCTGGAC| 9239
Sbjct 9180      |AACTGGGCGAGTAAGAACAAAGCTCAAACTCACTCCGATAACGGCGCTGGCCGGCTGGAC| 9239
Query 9240      |TTGTCCGGTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATCAGCGGTGTCTCAT| 9299
Sbjct 9240      |TTGTCCGGCTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATCAGCGGTGTCTCAT| 9299
Query 9300      |GCCCGGGCCCGCTGGTTCTGGTTTTTGCTACTCCTGCTGCTGCAGGGGTAGGCATCTAC| 9359
Sbjct 9300      |GCCCGGGCCCGCTGGTTCTGGTTTTTGCTACTCCTGCTGCTGCAGGGGTAGGCATCTAC| 9359
Query 9360      |CTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCC-GGCCCTTAAAGCCATTTCCT| 9416
Sbjct 9360      |CTCCTCCCCAACCGATGAAGATTGGGCTAACCACTCCAGGCCAAT-AGGCCATTTCCT| 9416

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>dbj|D128636.1| VACCINES CONTAINING RIBAVIRIN ANDMETHODS OF USE THEREOF
Length=9416

Score = 1.688e+04 bits (9140), Expect = 0.0
Identities = 9326/9418 (99%), Gaps = 4/9418 (0%)
Strand=Plus/Plus

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Query 1         |GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAAGTACTG| 60
Sbjct 1         |GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAAGTACTG| 60
Query 61        |TCTTACAGCAGAAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGCAGCCTCCAGGA| 120
Sbjct 61        |TCTTACAGCAGAAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGCAGCCTCCAGGA| 120
Query 121       |ccccccTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG| 180
Sbjct 121       |CCCCCTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG| 180
Query 181       |GACGACCGGGTCCCTTTCTTGATATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC| 240
Sbjct 181       |GACGACCGGGTCCCTTTCTTGATATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC| 240
Query 241       |GCAAGACTGTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGG| 300
Sbjct 241       |GCAAGACTGTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGG| 300
Query 301       |GTGCTTGCAGAGTGCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC| 360
Sbjct 301       |GTGCTTGCAGAGTGCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC| 360
Query 361       |CTCAAGAAAAACCAACGTAACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG| 420

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Sbjct 361      |||
CTCAAGAAAAACAAACGTAACACCAACCGTCGCCACAGGACGTAAGTTCCTCCGGGTG 420
Query 421      |||
GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCGCAGGGGCCCTAGATTGGGTGTGC 480
Sbjct 421      |||
GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCGCAGGGGCCCTAGATTGGGTGTGC 480
Query 481      |||
GCGGACAGGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTAGCCTATCCCCA 540
Sbjct 481      |||
GCGGACAGGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTAGCCTATCCCCA 540
Query 541      |||
AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGTTACCTTGGCCCCCTATG 600
Sbjct 541      |||
AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGTTACCTTGGCCCCCTATG 600
Query 601      |||
GCAATGAGGGTTGCGGGTGGCGGGATGGCTCTGCTCTCCCGTGGCTCTCGGCTAGCT 660
Sbjct 601      |||
GCAATGAGGGTTGCGGGTGGCGGGATGGCTCTGCTCTCCCGTGGCTCTCGGCTAGCT 660
Query 661      |||
GGGGCCCCACAGACCCCGGCGTAGGTGCGCAATTGGGTAAGGTCATCGATAACCCCTTA 720
Sbjct 661      |||
GGGGCCCCACAGACCCCGGCGTAGGTGCGCAATTGGGTAAGGTCATCGATAACCCCTTA 720
Query 721      |||
CGTGGCGGCTTCGCGCACTCATGGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGGG 780
Sbjct 721      |||
CGTGGCGGCTTCGCGCACTCATGGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGGG 780
Query 781      |||
CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG 840
Sbjct 781      |||
CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG 840
Query 841      |||
GGAACCTTCTCGTTGCTCTTCTCTATCTTCTTCTGCGCCCTGCTCTCTTGGCTGACTG 900
Sbjct 841      |||
GGAACCTTCTCGTTGCTCTTCTCTATCTTCTTCTGCGCCCTGCTCTCTTGGCTGACTG 900
Query 901      |||
TGCCCGCTTCAGCTACCAAGTGCAGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT 960
Sbjct 901      |||
TGCCCGCTTCAGCTACCAAGTGCAGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT 960
Query 961      |||
GCCCTAAGTCAGATATTGTTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGTG 1020
Sbjct 961      |||
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Query 1021      |||
TCCCTTTCGTTTCGCGAGGGTAACGCCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG 1080
Sbjct 1021      |||
TCCCTTTCGTTTCGCGAGGGTAACGCCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG 1080
Query 1081      |||
CACCAGGGACGGCAAACTCCCCACAACGACGCTTCGACGTCATATCGATCTGCTTGTGCG 1140
Sbjct 1081      |||
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Query 1141      |||
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Sbjct 1141      |||
GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG 1200
Query 1201      |||
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Sbjct 1201      |||
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Query 1261      |||
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Sbjct 1261      |||
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Query 1321      |||
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Sbjct 1321      |||
CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGAATCCCAAGCCATCATGGACA 1380
Query 1381      |||
TGATCGCTGGTGCTACTGGGGAGTCTTGGCGGGCATAGCGTATTCTCCATGTTGGGGA 1440
Sbjct 1381      |||
TGATCGCTGGCGCCACTGGGGAGTCTTGGCGGGCATAAAGTATTCTCCATGTTGGGGA 1440
Query 1441      |||
ACTGGGCGAAGGTCTGTGTAGTGTCTGCTATTGTCGGCGCTGACGCGGAAACCCACG 1500
Sbjct 1441      |||
ACTGGGCGAAGGTCTGTGTAGTGTCTGCTATTGTCGGCGCTGACGCGGAAACCCACG 1500
Query 1501      |||
TCACCGGGGAAATGCCGGCGCACACGGCTGGGCTTGTGTGCTCTTACACGAGGCG 1560

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Sbjct	1501	TCACCGGGGAAATGCCGCCGCCACACGGCTGGGCTTGTGTGCTCTTCACACAGGCG	1560
Query	1561	CCAAGCAGAAATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT	1620
Sbjct	1561	CCAAGCAGAAATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGGCC	1740
Sbjct	1681	TCAACTCTTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGGCC	1740
Query	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTTCGACGAAGCGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTTCGACGAAGCGCCCTACTGCT	1800
Query	1801	GGCACTACCCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCGGTAT	1860
Sbjct	1801	GGCACTACCCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCGGTAT	1860
Query	1861	ATTGCTTCACCTCCAGCCCCGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACCTCCAGCCCCGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCTTAAACACACAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCTTAAACACACAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAATCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAATCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCTTGTGTTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCTTGTGTTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAATATCCGGAAGCCACATATCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAATATCCGGAAGCCACATATCTCGGTGCGGCTCCGGTCCCAAGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTAICCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAAGCCTGTGATCTGGAAGACAGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAAGCCTGTGATCTGGAAGACAGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCTCTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCTCTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCA	2400
Query	2401	CGGGCTCATCCACCTCCACCAGAACATTGTGGACGTGAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CGGGCTCATCCACCTCCACCAGAACATTGTGGACGTGAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAGCATCGGCTCTGGGCCATTAAAGTGGGAGTACGTGTTCTTCGTTCCTTCTGCTTG	2520
Sbjct	2461	CAGCATCGGCTCTGGGCCATTAAAGTGGGAGTACGTGTTCTTCGTTCCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTGTCTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTGTCTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGCTTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCATGGCTTTGTGT	2640
Query	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGTAGTGGGTGCCCGGAGCGG	2700

Sbjct	2641	CCTTCTCTGTTGTTCTTCTGCTTTGCGTGGATATCTGAAGGGTAGTGGGTGCCCGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTTGGCCTCTCTCTCTGCTCTCTGCTGGCGTTGCCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTTGGCCTCTCTCTCTGCTCTCTGCTGGCGTTGCCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTTGGCGGGGTTGTCTTGTCTGGGTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTTGGCGGGGTTGTCTTGTCTGGGTAA	2820
Query	2821	TGGCGTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCTTCAACGTCC	2940
Query	2941	ggggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCGACCCTGGTATTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCAGTGTGTAGTACACCGGCCCTGGTATTG	3000
Query	3001	ACATACCAAACTACTCCTTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACTACTCCTTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCTGTGCGCGTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCTGTGCGCGTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAAATGCCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAAATGCCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTCTCGAGACTGGGCGCAACAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTGTGTGTATAACCATCTCGTCTCTCTCGAGACTGGGCGCAACAACGGCCTGCGAGATC	3240
Query	3241	TGGCGGTGGCTGTGGAACCAAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCAGTGGG	3300
Sbjct	3241	TGGCGGTGGCTGTGGAACCAAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCAGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTAGCCCCAGCAGACGAGAGGCCCTCTTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTAGCCCCAGCAGACGAGAGGCCCTCTTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGAGAGGTTGAGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGAGAGGTTGAGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCTTGCAACGTGCATCAATGGGGTATGCTGGACTGCTACCAACGGGGCCGGAA	3600
Sbjct	3541	AGACCTTCTTGCAACGTGCATCAATGGGGTATGCTGGACTGCTACCAACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATACCCAAGGGTCTGTCTATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATACCCAAGGGTCTGTCTATCCAGAGTATACCAATGTGGATCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGTCTCTCAAGTTTCCCGTCAATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTGTGGGCTGGCCCGTCTCTCAAGTTTCCCGTCTATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGACCTTTACTGGTACAGGACACGCCGATGTCAATCCCGTGCACCGGGCAGAGTG	3780
Sbjct	3721	CCTCGACCTTTACTGGTACAGGACACGCCGATGTCAATCCCGTGCACCGGGCAGAGTG	3780
Query	3781	ATAGCAGGGGTAGCTGCTTTCGCCCGCGGCCATTCTCTACTTGAAAGGCTCCTCGGGG	3840

Sbjct	3781		ATAGCAGGGGTAGCCTGCTTTCCGCCCGGCCCAATTCTACTTGAAGGCTCCTCGGGGG	3840
Query	3841		GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCCTATTACGGGCCCGGTGTGCACCC	3900
Sbjct	3841		GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCCTATTACGGGCCCGGTGTGCACCC	3900
Query	3901		GTGGAGTGGCTAAAGCGGTGGACITTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901		GTGGAGTGGCTAAGGCGGTGGACITTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961		CCCCGGTGTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961		CCCCGGTGTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021		ACCTGCATGCTCCACCGGCAGCGGTAAAGACCAACGAGTCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021		ACCTGCATGCTCCACCGGCAGCGGTAAAGACCAACGAGTCCGGCTGCGTACGCAGCCC	4080
Query	4081		AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTGTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081		AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTGTGCAACACATGGGCTTTGGTGCTT	4140
Query	4141		ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Sbjct	4141		ACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Query	4201		CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGTGCTCAG	4260
Sbjct	4201		CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGTGCTCAG	4260
Query	4261		GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261		GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321		TGGGACATCGGCATGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTGTGCTCG	4380
Sbjct	4321		CGGGACATCGGCATGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTGTGCTCG	4380
Query	4381		CCACTGTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGTTGTCT	4440
Sbjct	4381		CCACTGTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGTTGTCT	4440
Query	4441		TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAG	4500
Sbjct	4441		TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAG	4500
Query	4501		GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501		GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561		TGGTCGATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561		TGGTCGATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621		CGACCAGCGCGATGTTGTGCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGG	4680
Sbjct	4621		CGACCAGCGCGATGTTGTGCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGG	4680
Query	4681		ACTTCGACTCTGTGATAGACTGCACACGTGTGTCACTCAGACAGTCGATTTACGCTTG	4740
Sbjct	4681		ACTTCGACTCTGTGATAGACTGCACACGTGTGTCACTCAGACAGTCGATTTAGCCTTG	4740
Query	4741		ACCCCTACCTTTACCATTTAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741		ACCCCTACCTTTACCATTTAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801		GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGAGC	4860
Sbjct	4801		GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGAGC	4860
Query	4861		GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACCGGGCTGTGCTT	4920
Sbjct	4861		GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACCGGGCTGTGCTT	4920
Query	4921		GGTATGAGCTACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCG	4980

Sbjct	4921	GGTATGAGCTCACGCCCGCAGACTACAGTTAGGCTACGACGCTACATGAACACCCCGG	4980
Query	4981	GGCTTCCGGGTGTGCCAGGACCATTCTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCGGGTGTGCCAGGACCATTCTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAGAGCAGAGTGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCAGACAAGAGCAGAGTGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCCTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCCTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGCGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGGCGTGTTTCAGAAATGAAGTACCCTGACGCACCACCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGGCGTGTTTCAGAAATGAAGTACCCTGACGCACCACCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTGCGCCGACCTGGAGGTGCTGACAGACACCTGGGTGCTCGTGGCGGCCTCC	5340
Sbjct	5281	CATGCATGTGCGCCGACCTGGAGGTGCTGACAGACACCTGGGTGCTCGTGGCGGCCTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCGGGAAGCCCGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTTCGATG	5460
Sbjct	5401	TCCTTGTCGGGAAGCCCGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGAGTGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGAGTGATGCTCGCTGAGC	5520
Query	5521	AGTTCAGCAGAAAGGCCCTCGGCCCTTCGACAGCCGCGTCCGCCCATCGAGAGGTTATCA	5580
Sbjct	5521	AGTTCAGCAGAAAGGCCCTCGGCCCTTCGACAGCCGCGTCCGCCCATCGAGAGGTTATCA	5580
Query	5581	CCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCCTTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCGCTA	5820
Sbjct	5761	TCCCTTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCCCTAGCTGGCGCCGC-CATCGGCAGCGTTGGACTGGGGAAG	5879
Sbjct	5821	CCGCCCTTGTGGGCCTGGCTAGCTGGCGCCGCAC-TCGACAGCGTTGGACTGGGGAAG	5879
Query	5880	GTCTCTGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGATAGCAATC	5939
Sbjct	5880	GTCTCTGTGGACATTCTTGCAGGATATGGCGCGGGCGTGGCGGGAGCTCTTGATAGCAATC	5939
Query	5940	AAGATCATGAGCGTGAGGTGCCCTCCACGGAGGACCTGGTCAATCTGCTGCCGCATC	5999
Sbjct	5940	AAGATCATGAGCGTGAGGTGCCCTCCACGGAGGACCTGGTCAATCTGCTGCCGCATC	5999
Query	6000	CTCTCGCTTGAGGCCCTTGTAGTCGGTGTGGTCTGCGCAACAATACTGCGCCGGCAGTT	6059
Sbjct	6000	CTCTCACTTGAGGCCCTTGCAGTCGGTGTGGTCTTTCATCAATACTGCGCCGGCAGTT	6059
Query	6060	GGCCCGGGCGAGGGGGAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCGGGGG	6119

Sbjct	6060	GGCCCGGCGAGGGGGCAGTGCATAGGATGAACCGCTAATAGCCTTCGCTCCCGGGG	6119
Query	6120	AACCATGTTTCCCCACGCACTACGTGCGCGGAGAGCATGACAGCCGCCGCGTCACTGCC	6179
Sbjct	6120	AACCATGTTTCCCCACACACTACGTGCGCGGAGAGCATGACAGCCGCCGCGTCACTGCC	6179
Query	6180	ATACTCAGCAGCCTCACTGTAAACCAGCTCTGAGGCGACTGCATCAGTGGATAAGTCG	6239
Sbjct	6180	ATACTCAGCAGCCTCACTGTAAACCAGCTCTGAGGCGACTGCATCAGTGGATAAGTCG	6239
Query	6240	GAGTGTACCACTCCAATGCTCCGGTTCTTGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Sbjct	6240	GAGTGTACCACTCCAATGCTCCGGTTCTTGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Query	6300	GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6359
Sbjct	6300	GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6359
Query	6360	CCCTTTGTGTCTTCCGACGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Sbjct	6360	CCCTTTGTGTCTTCCGACGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Query	6420	ACTCGTGCACCTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Sbjct	6420	ACTCGTGCACCTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Query	6480	GTCGGTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAAGCCTACACC	6539
Sbjct	6480	GTCGGTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTTTCATTAAAGCCTACACC	6539
Query	6540	ACGGGCCCCGTGACTCCCCCTTCTGCGCGGAACATAAAGTTCGCGCTGTGGAGGGTGTCT	6599
Sbjct	6540	ACGGGCCCCGTGACTCCCCCTTCTGCGCGGAACATAAAGTTCGCGCTGTGGAGGGTGTCT	6599
Query	6600	GCAGAGGAATACCTGGAGATAAGCGGGTGGGGACTTCCACACTGATFCGGGTATGACT	6659
Sbjct	6600	GCAGAGGAATACCTGGAGATAAGCGGGTGGGGACTTCCACACTGATFCGGGTATGACT	6659
Query	6660	ACTGACAATCTTAAATGCCCGTGCCAGATCCCATGCGCCGAATTTTTCACAGAATTGGAC	6719
Sbjct	6660	ACTGACAATCTTAAATGCCCGTGCCAGATCCCATGCGCCGAATTTTTCACAGAATTGGAC	6719
Query	6720	GGGGTGCGCCTACACAGGTTTGCGCCCCCTTGAAGCCCTTGCTGCGGGAGGAGGTATCA	6779
Sbjct	6720	GGGGTGCGCCTACATAGGTTTGCGCCCCCTTGAAGCCCTTGCTGCGGGAGGAGGTATCA	6779
Query	6780	TTCAGAGTAGGACTCCACGAGTACCCCGTGGGGTCGCAATTACCTTGCAGAGCCGAAACC	6839
Sbjct	6780	TTCAGAGTAGGACTCCACGAGTACCCCGTGGGGTCGCAATTACCTTGCAGAGCCGAAACC	6839
Query	6840	GACGTAGCCGTTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCC	6899
Sbjct	6840	GACGTAGCCGTTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCC	6899
Query	6900	GGGAGAAAGTTGGCGAGAGGGTACCCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
Sbjct	6900	GGGAGAAAGTTGGCGAGAGGGTACCCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
Query	6960	TCCGCTCCATCTCTCAAGGCAACTTGCACGCCAACCATGACTCCCCTGACGCCGAGGCTC	7019
Sbjct	6960	TCCGCTCCATCTCTCAAGGCAACTTGCACGCCAACCATGACTCCCCTGACGCCGAGGCTC	7019
Query	7020	ATAGAGGCTAAACCTCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCA	7079
Sbjct	7020	ATAGAGGCTAAACCTCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCA	7079
Query	7080	GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGG	7139
Sbjct	7080	GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGG	7139
Query	7140	GAGGTCTCCGTAATCTGCAGAAATCTCGCGAAGTCTCGGAGATTGCGCCGGCCCTGCCC	7199
Sbjct	7140	GAGGTCTCCGTAACCCGAGAAATCTCGCGAAGTCTCGGAGATTGCGCCGAGCCCTGCC	7199
Query	7200	GTCGGGCGGGCGGACTACAAACCCCGCTAGTAGAGAGCTGGAAAAGCCCTGACTAC	7259

9/8/2009


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Sbjct 8340 CCCCAGGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTGTGGGGGCCCTCTT 8399
Query 8400 ACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCGCGCAGCGCGTACTGACA 8459
Sbjct 8400 ACTAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCGCGCAGCGAGTACTGACA 8459
Query 8460 ACTAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGA 8519
Sbjct 8460 ACTAGCTGTGGTAACACCCCTCACTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGA 8519
Query 8520 GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT 8579
Sbjct 8520 GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT 8579
Query 8580 GCGGGGGTCCAGGAGGACGCGCGAGCCTTGAGAGCCTTCAGGAGGCTATGACCAAGTAC 8639
Sbjct 8580 GCGGGGGTCCAGGAGGACGCGCGAGCCTTGAGAGCCTTCAGGAGGCTATGACCAAGTAC 8639
Query 8640 TCCGCCCCCGGGGACCCCCACAACAGAATACGACTTGGAGCTTATAACATCATGC 8699
Sbjct 8640 TCCGCCCCCGGGGACCCCCACAACAGAATACGACTTGGAGCTTATAACATCATGC 8699
Query 8700 TCCTCCAACGTGTGCTGCGCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGT 8759
Sbjct 8700 TCCTCCAACGTGTGCTGCGCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGT 8759
Query 8760 GACCCACACACCCCTCGCGAGAGCGCGTGGGAGACAGCAAGACACACTCCAGTCAAT 8819
Sbjct 8760 GACCCACACACCCCTCGCGAGAGCGCGTGGGAGACAGCAAGACACACTCCAGTCAAT 8819
Query 8820 TCCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATG 8879
Sbjct 8820 TCCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATG 8879
Query 8880 ACCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAAACAGGCTCTTAACCTGTGAG 8939
Sbjct 8880 ACCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAAACAGGCTCTTAACCTGCGAG 8939
Query 8940 ATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTC 8999
Sbjct 8940 ATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTC 8999
Query 9000 CATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCC 9059
Sbjct 9000 CATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCC 9059
Query 9060 GCATGCCTCAGAAAACCTTGGGGTCCCGCCTTGGCAGCTTGGAGACACCGGGCCGGAGC 9119
Sbjct 9060 GCATGCCTCAGAAAACCTTGGGGTCCCGCCTTGGCAGCTTGGAGACACCGGGCCGGAGC 9119
Query 9120 GTCCGCGTAGGCTTCTGTCCAGAGGAGGAGGCTGCCATATGTGGCAAGTACCTCTTC 9179
Sbjct 9120 GTCCGCGTAGGCTTCTGTCCAGAGGAGGAGGCTGCCATATGTGGCAAGTACCTCTTC 9179
Query 9180 AACTGGGCGAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGGCTGGAC 9239
Sbjct 9180 AACTGGGCGAGTAAGAACAAAGCTCAAACCTCACTCCGATAACGGCGCTGGCCGGCTGGAC 9239
Query 9240 TTGTCCGCTTGGTTTCACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCAT 9299
Sbjct 9240 TTGTCCGCTTGGTTTCACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCAT 9299
Query 9300 GCCCGGGCCGCTGGTTCTGTTTTGCTTACTCTGCTGCTGCAGGGGTAGGCATCTAC 9359
Sbjct 9300 GCCCGGGCCGCTGGTTCTGTTTTGCTTACTCTGCTGCTGCAGGGGTAGGCATCTAC 9359
Query 9360 CTCTCCCCAACCGATGAAGGTTGGGGTAAACACTCC-GGCCCTTAAGCCATTTCCT 9416
Sbjct 9360 CTCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCAGGCCAAT-AGGCCATTTCCT 9416

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>gb|EA281575.1| Sequence 13 from patent US 7261883
Length=9416

Score = 1.688e+04 bits (9140), Expect = 0.0

Identities = 9326/9418 (99%), Gaps = 4/9418 (0%)

Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCCTGTGAGGAACACTAGT	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCCTGTGAGGAACACTAGT	60
Query	61	TCTTCACGCAGAAAGCGCTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGCTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA	120
Query	121	ccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCTTTCTTTGGATAAACCCGCTCAATGCCCTGGAGATTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCTTTCTTTGGATAAACCCGCTCAATGCCCTGGAGATTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGCCCTGTGGTACTGCCGTATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGCCCTGTGGTACTGCCGTATAGG	300
Query	301	GTGCTTGCAGTGTGCCCGGAGGCTCTGTAGACCGTGCACCATGAGCAGCAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGTGTGCCCGGAGGCTCTGTAGACCGTGCACCATGAGCAGCAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTTCGAGGTAGACGTGAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTTCGAGGTAGACGTGAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCGCGGTAGGTCGCGCAATTGGGTGAAGTCAATGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCGCGGTAGGTCGCGCAATTGGGTGAAGTCAATGATACCCCTTA	720
Query	721	CGTGCGGCTTCGCGGACCTCATGGGGTACATACCGCTCGTGGCGCCCCCTTTGGAGGGC	780
Sbjct	721	CGTGCGGCTTCGCGGACCTCATGGGGTACATACCGCTCGTGGCGCCCCCTTTGGAGGGC	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCCTGTTGCTCTTTCTCTATCTCTCTTCGGCCCTGCTCTCTTGCTGACTG	900
Sbjct	841	GGAACCTTCCTGTTGCTCTTTCTCTATCTCTCTTCGGCCCTGCTCTCTTGCTGACTG	900
Query	901	TGCCCGCTTCAGCTACCAAGTGCAGCAATTCTCGGGGCTTTACCATGTACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCTACCAAGTGCAGCAATTCTCGGGGCTTTACCATGTACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCCTTCGCGAGGGTAACGCCCTCGAGGTGTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCCTTCGCGAGGGTAACGCCCTCGAGGTGTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGACGCGAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTGC	1140

Sbjct	1081	CCACGAGGACGGCAAACTCCCCAACACGACGCTTCGACGTCATATCGATCTGCTTGTGCG	1140
Query	1141	GGAGGCGCACCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTGTGCTTTTCTTG	1200
Sbjct	1141	GGAGGCGCACCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTGTGCTTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTGTCATCGCATGGCATGGGATATGATGATGAAGTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTGTCATCGCATGGCATGGGATATGATGATGAAGTGGT	1320
Query	1321	CCCCACGCGACGCTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCACGCGACGCTTGGTGGTAGCTCAGCTGCTCCGAATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCCTCATGTGGGGA	1440
Sbjct	1381	TGATCGCTGGCGCCCACTGGGGAGTCTTGGCGGGCATAAAGTATTTCCTCATGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCTCGGTAGTGTGCTGCTATTGTGCGGGCTGCAGCGGGAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCTCGGTAGTGTGCTGCTATTGTGCGGGCTGCAGCGGGAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCGGGCCGACCCAGCGCTGGGCTTGTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAATGCGGGCCGACCCAGCGCTGGGCTTGTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAAGTATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT	1620
Sbjct	1561	CCAAGCAGAACATCCAAGTATCAACACCAACGGGAGTTGGCACATCAATAGCACGGCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAT	1680
Sbjct	1621	TGAAGTCAATGAAAGCCTTAAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGTAGAGGTTGGCCAGCTGCCGACGCCCTTACCATTGTGCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGTAGAGGTTGGCCAGCTGCCGACGCCCTTACCATTGTGCC	1740
Query	1741	AGGGCTGGGGTCTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCTCCAAGACCTTGTGGCATGTGCCCCGAAAGAGCGTGTGTGCCCGGTAT	1860
Sbjct	1801	GGCACTACCTCCAAGACCTTGTGGCATGTGCCCCGAAAGAGCGTGTGTGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCAGCCCGGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCAGCCCGGTGGTGGTGGGAACGACGACAGGTGCGGCGCGCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAAATGATACGGATGCTTCGTCTCTTAAACACACGAGGCCACCGTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAAATGATACGGATGCTTCGTCTCTTAAACACACGAGGCCACCGTGG	1980
Query	1981	GCAATTGGTTGGTGTGACTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTGGTGTGACTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTGATCGGAGGGGTGGGCAACACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTGATCGGAGGGGTGGGCAACACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACTCCGAAGCCACATACTCTCGGTGGGCTCGGCTCCGCTCCGTTACACCCAGGT	2160
Sbjct	2101	GCAAAATCCGAAGCCACATACTCTCGGTGGGCTCGGCTCCGAGTTACACCCAGGT	2160
Query	2161	GCATGTGCACTACCCGTATAGGCTTTGGCACTATCCTTTGATCATCAATTACACCATAT	2220
Sbjct	2161	GCATGTGCACTACCCGTATAGGCTTTGGCACTATCCTTTGATCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGACACAGGCTGGAAGCGGCTGCAACTGGA	2280

Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCAGACACAGGCTGGAAGCGGCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAAGCGTGTGATCTGGAAGACAGGGACAGGTCGAGCTACGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAAGCGTGTGATCTGGAAGACAGGGACAGGTCGAGCTACGCCCGTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCCTCCGTGTTCTTTACGACCCTGCCAGCCTTGCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCCTCCGTGTTCTTTACGACCCTGCCAGCCTTGCCA	2400
Query	2401	CCGCGCTCATCCACCTCCACCAGAACATTTGGACGTGCAGTACTTTGACGGGGTAGGGT	2460
Sbjct	2401	CCGCGCTCATCCACCTCCACCAGAACATTTGGACGTGCAGTACTTTGACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCTTG	2520
Query	2521	CAGACGCGCGGTCTGCTCCTGCTTTGGATGATGTTACTCATATCCCAAGCGGAGCGG	2580
Sbjct	2521	CAGACGCGCGGTCTGCTCCTGCTTTGGATGATGTTACTCATATCCCAAGCGGAGCGG	2580
Query	2581	CTTTGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCGGGACGCACGGTCTTGTTG	2640
Sbjct	2581	CTTTGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCGGGACGCATGGTCTTGTTG	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCCTCTCCTCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCCTCTCCTCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGAGGTTGGCCGCTCGTGTGGCGCGGTGTGTTCTGTCCGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGAGGTTGGCCGCTCGTGTGGCGCGGTGTGTTCTGTCCGGTTAA	2820
Query	2821	TGGCGTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCACTGGTGGCTTC	2880
Sbjct	2821	TGGCGTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCACTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCAGCTGTGGGTTTCCCCCTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCAGCTGTGGGTTTCCCCCTCAACGTCC	2940
Query	2941	ggggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCGCACCTTGGTATTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCACGTGTGTAGTACACCGCGCTTGGTATTG	3000
Query	3001	ACATCACCAAATCTACTCTGGCCATCTTCGAGCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAATCTACTCTGGCCATCTTCGAGCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCTACTTCGTGCGCGTTCAAGGCCCTTCCTCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCTACTTCGTGCGCGTTCAAGGCCCTTCCTCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAAATGCCCATCATCAAGTTAGGGGGGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAAATGCCCATCATCAAGTTAGGGGGGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACACCGGCTGCGAGATC	3240
Sbjct	3181	CCTGTGTGTATAACCATCTCGCTCCTCTTCGAGACTGGGCGCACACCGGCTGCGAGATC	3240
Query	3241	TGGCGGTGGCTGTGGAACAGTCGCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCGGTGGCTGTGGAACAGTCGCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCGCGGTGCGGTGACATCATCAACGGCTTGCCGCTCTTCGCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCGCGGTGCGGTGACATCATCAACGGCTTGCCGCTCTTCGCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCGAGCCGACGGAATGGTCTCCAAGGGTGGAGGTTGCTGG	3420

Sbjct	3361	GCCAGGAGATACTGCTTTGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTGTCTGG	3420
Query	3421	CGCCCATACCGGCTAGCCCCAGCAGCAGAGAGGCCCTCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATACCGGCTAGCCCCAGCAGCAGAGAGGCCCTCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCTCGGCAACGTGCATCAATGGGGTATGCTGGACTGCTACCAACGGGGCCGGAA	3600
Sbjct	3541	AGACCTTCTCGGCAACGTGCATCAATGGGGTATGCTGGACTGCTACCAACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGACGTATACCAATGTGGATCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCTCGCTCATTGACACCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTCGTGGGCTGGCCCGCTCTCAAGGTTCCTCGCTCATTGACACCTGCACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACTGGTCAGAGGCACGCCGATGTCAITTCCTGTCGCGGGCAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACTGGTCAGAGGCACGCCGATGTCAITTCCTGTCGCGGGCAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGGCCATTTCCTACTTGAAAGGCTCCTCGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGGCCATTTCCTACTTGAAAGGCTCCTCGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCTATTACGGGCCCGGTTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCTATTACGGGCCCGGTTGTGCACCC	3900
Query	3901	GTGGAGTGCTAAGCGGCTGGACTTTATCCCTGTGGAGAACTAGGACAACATGAGAT	3960
Sbjct	3901	GTGGAGTGCTAAGCGGCTGGACTTTATCCCTGTGGAGAACTAGAGACAACATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCC	4020
Query	4021	ACCTGCATGCTCCACCGGCAGCGTAAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCACCGGCAGCGTAAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCA	4080
Query	4081	AGGGCTACAAGGTGTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTGGTGCTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTGTATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTGTATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Query	4201	CTGGCAGCCCATCAGTACTCCACTACGGCAAGTTCCTTGCCAGCGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCATCAGTACTCCACTACGGCAAGTTCCTTGCCAGCGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTGTGACAGAGTGCCATCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTGTGACAGAGTGCCATCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACGTGCTTGGACCAAGCAGAGACTCGGGGGGCGAGACTGGTGTGCTCG	4380
Sbjct	4321	CGGGCATCGGCACGTGCTTGGACCAAGCAGAGACTCGGGGGGCGAGACTGGTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACCTGTGTCCATCTTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACCTGTGTCCATCTTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAG	4500
Sbjct	4441	TGTCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAG	4500
Query	4501	GGGGAGAGCATCTCATCTTCTGCCACTCAAGAAAGAGTGGCAGAGCTCGCCGCGAAGC	4560

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Sbjct 4501 |GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGTGCACGAGCTCGCCGCGAAGC| 4560
Query 4561 |TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCC| 4620
Sbjct 4561 |TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCC| 4620
Query 4621 |CGACCAGCGGCGATGTTGTCTGTCGTGTCACCGATGCTCTCATGACTGGCTTTACCGGGG| 4680
Sbjct 4621 |CGACCAGCGGCGATGTTGTCTGTCGTGTCACCGATGCTCTCATGACTGGCTTTACCGGGG| 4680
Query 4681 |ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG| 4740
Sbjct 4681 |ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG| 4740
Query 4741 |ACCCCTACCTTTTACCATTTAGACAACACCGCTCCCCAGGATGCTGTCTCCAGGACTCAAC| 4800
Sbjct 4741 |ACCCCTACCTTTTACCATTTAGACAACACCGCTCCCCAGGATGCTGTCTCCAGGACTCAAC| 4800
Query 4801 |GCCGGGGCAGGACTGGCAGGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGAGC| 4860
Sbjct 4801 |GCCGGGGCAGGACTGGCAGGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGAGC| 4860
Query 4861 |GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT| 4920
Sbjct 4861 |GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT| 4920
Query 4921 |GGTATGAGCTCAGCCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG| 4980
Sbjct 4921 |GGTATGAGCTCAGCCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG| 4980
Query 4981 |GGCTTCCCGTGTGCCAGGACCATCTTGAAATTTGGGAGGGCGCTTTTACGGGCTCACTC| 5040
Sbjct 4981 |GGCTTCCCGTGTGCCAGGACCATCTTGAAATTTGGGAGGGCGCTTTTACGGGCTCACTC| 5040
Query 5041 |ATATAGATGCCCACTTTTATCCAGACAAGACAGAGTGGGGAGAACTTTCCTTACCTGG| 5100
Sbjct 5041 |ATATAGATGCCCACTTTTATCCAGACAAGACAGAGTGGGGAGAACTTTCCTTACCTGG| 5100
Query 5101 |TAGCGTACCAAGCACCCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA| 5160
Sbjct 5101 |TAGCGTACCAAGCACCCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA| 5160
Query 5161 |TGTGGAAGTGTTTGATCCGCCCTTAAACCCACCCCTCCATGGGGCAACACCCCTGCTATACA| 5220
Sbjct 5161 |TGCGAAGTGTTTGATCCGCCCTTAAACCCACCCCTCCATGGGGCAACACCCCTGCTATACA| 5220
Query 5221 |GACTGGGCGCTGTTCAGAAATGAAGTCACCTGACGCACCCAATCACCAAAATACATCATGA| 5280
Sbjct 5221 |GACTGGGCGCTGTTCAGAAATGAAGTCACCTGACGCACCCAATCACCAAAATACATCATGA| 5280
Query 5281 |CATGATATGTCGGCCGACCTGGAGGTCTGTACGAGCACTGGGTGCTCGTTGGCGGCGTCC| 5340
Sbjct 5281 |CATGATATGTCGGCCGACCTGGAGGTCTGTACGAGCACTGGGTGCTCGTTGGCGGCGTCC| 5340
Query 5341 |TGCGTCTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG| 5400
Sbjct 5341 |TGCGTCTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCAATAGTGGGCAGGATCG| 5400
Query 5401 |TCTTGTCGGGAAGCGCGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTTCGATG| 5460
Sbjct 5401 |TCTTGTCGGGAAGCGCGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTTCGATG| 5460
Query 5461 |AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCAGCAAGGAGTATGCTCGCTGAGC| 5520
Sbjct 5461 |AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCAGCAAGGAGTATGCTCGCTGAGC| 5520
Query 5521 |AGTTCAAGCAGAAGGCCCTCGGCCTCTCGACACCGCGTCCC GCCATCGAGAGGTTATCA| 5580
Sbjct 5521 |AGTTCAAGCAGAAGGCCCTCGGCCTCTCGACACCGCGTCCC GCCATCGAGAGGTTATCA| 5580
Query 5581 |CCCCGTGTGCCAGCAACTGGCAGAACTCGAGGCTCTTTTGGGCGAAGCACATGTGGA| 5640
Sbjct 5581 |CCCCGTGTGCCAGCAACTGGCAGAACTCGAGGCTCTTTTGGGCGAAGCACATGTGGA| 5640
Query 5641 |ATTTTCATCAGTGGGATACAATCTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA| 5700

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Sbjct 5641 ATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA 5700
Query 5701 TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC 5760
|||||
Sbjct 5701 TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC 5760
Query 5761 TCCTCTTCAACATATTggggggTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA 5820
|||||
Sbjct 5761 TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA 5820
Query 5821 CTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGC-CATCGGCAGCGTTGGACTGGGGAAG 5879
Sbjct 5821 CCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCAC-TCGACAGCGTTGGACTGGGGAAG 5879
Query 5880 GTCCCTCGTGACATTCTTCAGGGTATGCGCGGGCGTGGCGGGAGCTCTGTAGCAATC 5939
Sbjct 5880 GTCCCTCGTGACATTCTTCAGGGTATGCGCGGGCGTGGCGGGAGCTCTGTGTGGCAATC 5939
Query 5940 AAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCGCCATC 5999
Sbjct 5940 AAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCGCCATC 5999
Query 6000 CTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTT 6059
Sbjct 6000 CTCTCACCCTGGAGCCCTTGAGTCGGTGTGGTCTTTGCATCAATACTGCGCCGGCGTGT 6059
Query 6060 GGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGG 6119
Sbjct 6060 GGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGG 6119
Query 6120 AACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGCAGCCGCCCGCGTCACTGCC 6179
Sbjct 6120 AACCATGTTTCCCCACACACTACGTGCCGAGAGCGATGCAGCCGCCCGCGTCACTGCC 6179
Query 6180 ATACTCAGCAGCCTCACTGTAAACCAAGCTCCTGAGGCGACTGCATCACTGGATAAGCTCG 6239
Sbjct 6180 ATACTCAGCAGCCTCACTGTAAACCAAGCTCCTGAGGCGACTGCATCACTGGATAAGCTCG 6239
Query 6240 GAGTGTAACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG 6299
Sbjct 6240 GAGTGTAACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG 6299
Query 6300 GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT 6359
Sbjct 6300 GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT 6359
Query 6360 CCGTTTGTGCTCCTGCCAGCGGGGTATAGGGGGTCTGGCGAGGAGACGGCAATTATGCAC 6419
Sbjct 6360 CCGTTTGTGCTCCTGCCAGCGGGGTATAGGGGGTCTGGCGAGGAGACGGCAATTATGCAC 6419
Query 6420 ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC 6479
Sbjct 6420 ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC 6479
Query 6480 GTCGGTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAAACGCTACACC 6539
Sbjct 6480 GTCGGTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCTTCAATTAAAGCTACACC 6539
Query 6540 ACGGGCCCCGTACTCCCTTCTCGCGCGGAACATAAAGTTCGCGCTGTGGAGGGTGTCT 6599
Sbjct 6540 ACGGGCCCCGTACTCCCTTCTCGCGCGGAACATAAAGTTCGCGCTGTGGAGGGTGTCT 6599
Query 6600 GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACT 6659
Sbjct 6600 GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGCATGACT 6659
Query 6660 ACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGAC 6719
Sbjct 6660 ACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGAC 6719
Query 6720 GGGGTGCGCTACACAGGTTTGCGCCCTTTCAGAGCCCTTGCTGCGGGAGGAGGTATCA 6779
Sbjct 6720 GGGGTGCGCTACATAGGTTTGCGCCCTTTCAGAGCCCTTGCTGCGGGAGGAGGTATCA 6779
Query 6780 TTCAGATAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCAGACCCGAACCG 6839
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Sbjct 6780  |||||TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTCGCGAGCCCGAACCG 6839
Query 6840  |||||GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGGC 6899
Sbjct 6840  |||||GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGGC 6899
Query 6900  |||||GGGAGAAAGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG 6959
Sbjct 6900  |||||GGGAGAAAGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG 6959
Query 6960  |||||TCCGCTCCATCTCTCAAGGCAACTTGACCCGCCAACCATGACTCCCTGACGCCAGGCTC 7019
Sbjct 6960  |||||TCCGCTCCATCTCTCAAGGCAACTTGACCCGCCAACCATGACTCCCTGACGCCAGGCTC 7019
Query 7020  |||||ATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGCGGCCAACATCACCAGGGTTGAGTCA 7079
Sbjct 7020  |||||ATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGCGGCCAACATCACCAGGGTTGAGTCA 7079
Query 7080  |||||GAGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG 7139
Sbjct 7080  |||||GAGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG 7139
Query 7140  |||||GAGGTCTCCGTACCTGCAGAAATTTCGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCC 7199
Sbjct 7140  |||||GAGGTCTCCGTACCCCGCAGAAATTTCGCGGAAGTCTCGGAGATTGCGCCAGCCCTGCC 7199
Query 7200  |||||GTCTGGGCGCGCCGGACTACAACCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTAC 7259
Sbjct 7200  |||||GTCTGGGCGCGCCGGACTACAACCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTAC 7259
Query 7260  |||||GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCTGTGCCTCCG 7319
Sbjct 7260  |||||GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCTGTGCCTCCG 7319
Query 7320  |||||CCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCATATCTACTGCCTTGGCCGAG 7379
Sbjct 7320  |||||CCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCATATCTACTGCCTTGGCCGAG 7379
Query 7380  |||||CTTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCCGCATACGGGGGACAATACGACA 7439
Sbjct 7380  |||||CTTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCCGCATACGGGGGACAATACGACA 7439
Query 7440  |||||ACATCCTCTGAGCCCGCCCTTCTGGCTGcccccccGACTCCGACGTTGAGTCTCTATTCT 7499
Sbjct 7440  |||||ACATCCTCTGAGCCCGCCCTTCTGGCTGCCCGCCGACTCCGACGTTGAGTCTCTATTCT 7499
Query 7500  |||||TCCATGcccccccTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAATGGTCG 7559
Sbjct 7500  |||||TCCATGCCCGCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAATGGTCG 7559
Query 7560  |||||ACGGTCAGTAGTGGGGCGGACACGGAAGATGTCGTGTGCTGCTCAATGCTCTATTCTCTGG 7619
Sbjct 7560  |||||ACGGTCAGTAGTGGGGCGGACACGGAAGATGTCGTGTGCTGCTCAATGCTCTATTCTCTGG 7619
Query 7620  |||||ACAGGCGCACTCTGCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACCTG 7679
Sbjct 7620  |||||ACAGGCGCACTCTGCACCCCGTGCCTGCGGAGGAACAAAACTGCCCATCAACGCACCTG 7679
Query 7680  |||||AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC 7739
Sbjct 7680  |||||AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC 7739
Query 7740  |||||CAAAGGCAGAGAAGTACATTTGACAGACTGCAAGTTCTGGCAGGCATTACACAGGAC 7799
Sbjct 7740  |||||CAAAGGAAGAAGAAAGTACATTTGACAGACTGCAAGTTCTGGCAGGCATTACACAGGAC 7799
Query 7800  |||||GTGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAG 7859
Sbjct 7800  |||||GTGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAG 7859
Query 7860  |||||GAAGCTTGACGCTGACGCCCCACATTGAGCCAAATCCAAGTTTGGCTATGGGGCAAAA 7919
Sbjct 7860  |||||GAAGCTTGACGCTGAGCGCCCCACATTGAGCCAAATCCAAGTTTGGCTATGGGGCAAAA 7919
Query 7920  |||||GACGTCCGTTGCCATGCCAGAAAGCCGTAGCCACATCAACTCCGTGTGGAAGACCTT 7979

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Sbjct	7920	GACGTCCGTTGCCATGCCAGAAAGCGCTAGCCACATCACTCCGTGTGGAAGACCTT	7979
Query	7980	CTGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTCTGC	8039
Sbjct	7980	CTGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTCTGC	8039
Query	8040	GTTCAGCCTGAGAAGGGGGGTGTAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGC	8099
Sbjct	8040	GTTCAGCCTGAGAAGGGGGGTGTAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGC	8099
Query	8100	GTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCGTG	8159
Sbjct	8100	GTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCGTG	8159
Query	8160	ATGGGAAGCTCCTACGATTCCAATACTCACCAGGACAGCGGGTGAATTCTCGTGCAA	8219
Sbjct	8160	ATGGGAAGCTCCTACGATTCCAATACTCACCAGGACAGCGGGTGAATTCTCGTGCAA	8219
Query	8220	GCGTGGAAGTCCAAGAAGACCCCGATGGGGTCTCGTATGATACCCGCTGTTTGTACTCC	8279
Sbjct	8220	GCGTGGAAGTCCAAGAAGACCCCGATGGGGTCTCGTATGATACCCGCTGTTTGTACTCC	8279
Query	8280	ACAGTCACCTGAGAGCGACATCCGTACGGAGGAGGCAATTACCAATGTTGTGACCTGGAC	8339
Sbjct	8280	ACAGTCACCTGAGAGCGACATCCGTACGGAGGAGGCAATTACCAATGTTGTGACCTGGAC	8339
Query	8340	CCCCAAGCCCGCTGGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT	8399
Sbjct	8340	CCCCAAGCCCGCTGGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT	8399
Query	8400	ACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACA	8459
Sbjct	8400	ACTAATTCAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCAGCGAGAGTACTGACA	8459
Query	8460	ACTAGCTGTGTGTAACACCTCACTTGCTACATCAAGGCCGGGACGCTTGTCGAGCCGCA	8519
Sbjct	8460	ACTAGCTGTGTGTAACACCTCACTTGCTACATCAAGGCCGGGACGCTTGTCGAGCCGCA	8519
Query	8520	GGGCTCCAGGACTGCACCATGCTCGTGTGTGGGCAGGACTTAGTCGTTATCTGTGAAAGT	8579
Sbjct	8520	GGGCTCCAGGACTGCACCATGCTCGTGTGTGGGCAGGACTTAGTCGTTATCTGTGAAAGT	8579
Query	8580	GCGGGGGTCCAGGAGGACGCGCGAGGCTGAGAGCCTTCACGGAGGCTATGACCAGGTAC	8639
Sbjct	8580	GCGGGGGTCCAGGAGGACGCGCGAGGCTGAGAGCCTTCACGGAGGCTATGACCAGGTAC	8639
Query	8640	TCCGcccccccgggggacccccACAACAGAAATACGACTTGGAGCTTATAACATCATGC	8699
Sbjct	8640	TCCGCCCCCCCCGGGACCCCCACAACAGAAATACGACTTGGAGCTTATAACATCATGC	8699
Query	8700	TCTTCCAACGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGGTCTACTACCTTACCCGT	8759
Sbjct	8700	TCTTCCAACGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGGTCTACTACCTTACCCGT	8759
Query	8760	GACCCFACAACCCCCCTCGCGAGAGCGCGGTGGGAGACAGCAAGACACTCCAGTCAAT	8819
Sbjct	8760	GACCCFACAACCCCCCTCGCGAGAGCGCGGTGGGAGACAGCAAGACACTCCAGTCAAT	8819
Query	8820	TCTTGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCAGGATGATACTGATG	8879
Sbjct	8820	TCTTGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCAGGATGATACTGATG	8879
Query	8880	ACCCATTTCTTTAGCGTCCATATGCCAGGGATCAGCTTGAAACAGGCTCTTAACGTGTGAG	8939
Sbjct	8880	ACCCATTTCTTTAGCGTCCATATGCCAGGGATCAGCTTGAAACAGGCTCTTAACGTGTGAG	8939
Query	8940	ATCTACGGAGGCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTC	8999
Sbjct	8940	ATCTACGGAGGCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTC	8999
Query	9000	CATGGCCTCAGCGCAATTTTCACTCCACAGTTACTCTCCAGTGAAATTAATAGGGTGGCC	9059
Sbjct	9000	CATGGCCTCAGCGCAATTTTCACTCCACAGTTACTCTCCAGTGAAATTAATAGGGTGGCC	9059
Query	9060	GCATGGCTCAGAAAACCTGGGGTCCCGCCCTTGCAGGCTTGGAGACACCGGGCCCGGAGC	9119

9/8/2009

Sbjct	661		720
Query	721		780
Sbjct	721		780
Query	781		840
Sbjct	781		840
Query	841		900
Sbjct	841		900
Query	901		960
Sbjct	901		960
Query	961		1020
Sbjct	961		1020
Query	1021		1080
Sbjct	1021		1080
Query	1081		1140
Sbjct	1081		1140
Query	1141		1200
Sbjct	1141		1200
Query	1201		1260
Sbjct	1201		1260
Query	1261		1320
Sbjct	1261		1320
Query	1321		1380
Sbjct	1321		1380
Query	1381		1440
Sbjct	1381		1440
Query	1441		1500
Sbjct	1441		1500
Query	1501		1560
Sbjct	1501		1560
Query	1561		1620
Sbjct	1561		1620
Query	1621		1680
Sbjct	1621		1680
Query	1681		1740
Sbjct	1681		1740
Query	1741		1800
Sbjct	1741		1800
Query	1801		1860

Sbjct	1801	GGCACTACCCCTCCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTGGGGCGGCCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTGGGGCGGCCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCTTAAACAACACACAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCTTAAACAACACACAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGAGGGGTGGGCAACAACACTTGCTCTGCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGAGGGGTGGGCAACAACACTTGCTCTGCCCACTGATTGCTTCC	2100
Query	2101	GCAAAATCCGGAAGCCACATACCTCTCGGTGCGGCTCCGTCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAAATCCGGAAGCCACATACCTCTCGGTGCGGCTCCGTCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGTACCATCAATTACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGTACCATCAATTACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGTTCGAGCACAGGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGTTCGAGCACAGGCTGGAAGCGGCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGACAGGTCCGAGCTCAGCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGACAGGTCCGAGCTCAGCCGTTGCTGC	2340
Query	2341	TGTCACCACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCTCA	2400
Sbjct	2341	TGTCACCACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCTCA	2400
Query	2401	CCGGCTCATCCACCTCCACCAGAACATTGTGGAGCTGCAGTACTTGTACGGGTAGGGT	2460
Sbjct	2401	CCGGCTCATCCACCTCCACCAGAACATTGTGGAGCTGCAGTACTTGTACGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCTGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCTGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCTGCTTGTTGATGATGTTACTATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCTGCTTGTTGATGATGTTACTATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGATGGTCTTGTGT	2640
Query	2641	CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGAGCGG	2700
Sbjct	2641	CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCTGCTCCTGCTGGCGTTGCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCTGCTCCTGCTGGCGTTGCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGGCGTGTCTTGTGCGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGGCGTGTCTTGTGCGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCAAGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCAAGTCC	2940
Query	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCTTGGTATTG	3000

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Sbjct  2941  |||
GGGGGGGGCGCGATGCCGTCATCTTACTCAGGTGTAGTACACCCGGCCCTGGTATTTC 3000
Query  3001  ACATCACCAAACTACTCTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC 3060
Sbjct  3001  ACATCACCAAACTACTCTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC 3060
Query  3061  TTAAAGTCCCCTACTTCTCGTGCAGCTTCAAGGCCTTCTCCGGATCTGCGCGTAGCGCGGA 3120
Sbjct  3061  TTAAAGTCCCCTACTTCTCGTGCAGCTTCAAGGCCTTCTCCGGATCTGCGCGTAGCGCGGA 3120
Query  3121  AGATAGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA 3180
Sbjct  3121  AGATAGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA 3180
Query  3181  CCTATGTGTATAACCATCTACCCCTCTTCGAGATGGGCGCACAAAGGCCTGCGAGATC 3240
Sbjct  3181  CCTATGTGTATAACCATCTCGCTCCTCTTCGAGATGGGCGCACAAAGGCCTGCGAGATC 3240
Query  3241  TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCGAAATGGAGACCAAGCTCATCACGTGGG 3300
Sbjct  3241  TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCGAAATGGAGACCAAGCTCATCACGTGGG 3300
Query  3301  GGGCAGATACCGCGCGTGCAGTACATCAACGGCTTGGCCGTCTCTGCCCGTAGGG 3360
Sbjct  3301  GGGCAGATACCGCGCGTGCAGTACATCAACGGCTTGGCCGTCTCTGCCCGTAGGG 3360
Query  3361  GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTGTGCTGG 3420
Sbjct  3361  GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTGTGCTGG 3420
Query  3421  CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCTCTTCAAGGGTGTATAATCACCAGCC 3480
Sbjct  3421  CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCTCTTCAAGGGTGTATAATCACCAGCC 3480
Query  3481  TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTTCAGATCGTGTCAACTGCTACCC 3540
Sbjct  3481  TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTTCAGATCGTGTCAACTGCTACCC 3540
Query  3541  AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACGGGGCGGAA 3600
Sbjct  3541  AGACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACGGGGCGGAA 3600
Query  3601  CGAGGACCATCGCATACCCAAAGGTCCTGTCTATCAGATGTATACCAATGTGACCAAG 3660
Sbjct  3601  CGAGGACCATCGCATACCCAAAGGTCCTGTCTATCAGATGTATACCAATGTGATCAAG 3660
Query  3661  ACCCTGTGGGCTGGCCCGCTCTCTCAAGGTTCCCGCTCATTGACACCTGTACTGCGGGT 3720
Sbjct  3661  ACCCTGTGGGCTGGCCCGCTCTCTCAAGGTTCCCGCTCATTGACACCTGTACTGCGGGT 3720
Query  3721  CCTCGGACCTTTACTTGGTACGAGGCACGCCGATGTCTTCCGTCGCGCCGCGAGGTG 3780
Sbjct  3721  CCTCGGACCTTTACTTGGTACGAGGCACGCCGATGTCTTCCGTCGCGCCGCGAGGTG 3780
Query  3781  ATAGCAGGGGTAGCCTGCTTTTCGCCCCGCCCCATTCTACTTTGAAAGGCTCTCGGGG 3840
Sbjct  3781  ATAGCAGGGGTAGCCTGCTTTTCGCCCCGCCCCATTCTACTTTGAAAGGCTCTCGGGG 3840
Query  3841  GTCCGCTGTGTGTCGCCCGGGACACGCCGTGGGCTATTACGGGCCGCGGTGTGCACCC 3900
Sbjct  3841  GTCCGCTGTGTGTCGCCCGGGACACGCCGTGGGCTATTACGGGCCGCGGTGTGCACCC 3900
Query  3901  GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT 3960
Sbjct  3901  GTGGAGTGGCTAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT 3960
Query  3961  CCCCAGTGTTCACGGACAACCTCTCTCCACCAGCAGTCCCCAGAGCTTCCAGTGGCCC 4020
Sbjct  3961  CCCCAGTGTTCACGGACAACCTCTCTCCACCAGCAGTCCCCAGAGCTTCCAGTGGCCC 4020
Query  4021  ACCTGCATGTCTCCACCGGACGCGTAAGAGCACCAAGGTCCCGGCTGCGTACGACGCC 4080
Sbjct  4021  ACCTGCATGTCTCCACCGGACGCGTAAGAGCACCAAGGTCCCGGCTGCGTACGACGCCA 4080
Query  4081  AGGGCTACAAGGTGTGTGTCTCAACCCCTCTGTGTGTGCAACGCTGGGCTTTGGTGCTT 4140

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Sbjct 4081 AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTT 4140
Query 4141 ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA 4200
Sbjct 4141 ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA 4200
Query 4201 CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG 4260
Sbjct 4201 CTGGCAGCCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG 4260
Query 4261 GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT 4320
Sbjct 4261 GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT 4320
Query 4321 TGGGCTCTGGCACTGTCTTGACCAAGCAGAGACTCGGGGGCGAGACTGGTTGTGCTCG 4380
Sbjct 4321 CGGGCATCGGCATGTCTTGACCAAGCAGAGACTCGGGGGCGAGACTGGTTGTGCTCG 4380
Query 4381 CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGTTGCTC 4440
Sbjct 4381 CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGTTGCTC 4440
Query 4441 TGTCCACCACCAGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG 4500
Sbjct 4441 TGTCCACCACCAGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG 4500
Query 4501 GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCAGCAGCTCGCCGCGAAGC 4560
Sbjct 4501 GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCAGCAGCTCGCCGCGAAGC 4560
Query 4561 TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC 4620
Sbjct 4561 TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC 4620
Query 4621 GCACGAGCGGCGATGTGTGCTCGTGTGACCGATGCTCTCATGACTGGCTTTACCGGGG 4680
Sbjct 4621 GCACGAGCGGCGATGTGTGCTCGTGTGACCGATGCTCTCATGACTGGCTTTACCGGGG 4680
Query 4681 ACTTCGACTCTGTGATAGACTGCAACACGTGTGCTACTCAGACAGTCGATTTCAGCCTTG 4740
Sbjct 4681 ACTTCGACTCTGTGATAGACTGCAACACGTGTGCTACTCAGACAGTCGATTTCAGCCTTG 4740
Query 4741 ACCCTACCTTTACCATTTAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC 4800
Sbjct 4741 ACCCTACCTTTACCATTTAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC 4800
Query 4801 GCCGGGGCAGGACTTGGCAGGGGGAAGCCAGGCATCTATAGATTTGGGCACCGGGGAGC 4860
Sbjct 4801 GCCGGGGCAGGACTTGGCAGGGGGAAGCCAGGCATCTATAGATTTGGGCACCGGGGAGC 4860
Query 4861 GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT 4920
Sbjct 4861 GCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT 4920
Query 4921 GGTATGAGCTCAGCCCGCCGAGACTACAGTTAGGCTACAGCGGTACATGAACACCCCGG 4980
Sbjct 4921 GGTATGAGCTCAGCCCGCCGAGACTACAGTTAGGCTACAGCGGTACATGAACACCCCGG 4980
Query 4981 GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCACTC 5040
Sbjct 4981 GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCACTC 5040
Query 5041 ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACCTGG 5100
Sbjct 5041 ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACCTGG 5100
Query 5101 TAGCGTACCAAGCACCCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGA 5160
Sbjct 5101 TAGCGTACCAAGCACCCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGA 5160
Query 5161 TGTGGAAGTGTTTGATCCGCCCTTAAACCCACCCCTCCATGGGGCAACACCCCTGCTATACA 5220
Sbjct 5161 TGGGGAAGTGTTTGATCCGCCCTTAAACCCACCCCTCCATGGGGCAACACCCCTGCTATACA 5220
Query 5221 GACTGGGCGTGTTCAGAAATGAAGTACCCCTGACGCACCCAATCACCANAATACATCATGA 5280

Sbjct	5221		GACTGGGCGCTGTTCAAGTGAAGTACACCTGACGACACCAATACCAAAATACATCATGA	5280
Query	5281		CATGCATGTGCGGCCACCTGGAGGTCGTACGAGACCTGGGTGCTCGTTGGCGGGCTCC	5340
Sbjct	5281		CATGCATGTGCGGCCACCTGGAGGTCGTACGAGACCTGGGTGCTCGTTGGCGGGCTCC	5340
Query	5341		TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGAGGATCG	5400
Sbjct	5341		TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGAGGATCG	5400
Query	5401		TCTTGTCCGGGAAGCCGCGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401		TCTTGTCCGGGAAGCCGCGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461		AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461		AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521		AGTTCAAGCAGAAGGCCCTCGGCCCTCTCGACACCGCTCCGCCCATGCAGAGGTTATCA	5580
Sbjct	5521		AGTTCAAGCAGAAGGCCCTCGGCCCTCTCGACACCGCTCCGCCCATGCAGAGGTTATCA	5580
Query	5581		CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581		CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641		ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCTGGTAACCCGCCA	5700
Sbjct	5641		ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCTGGTAACCCGCCA	5700
Query	5701		TTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701		TTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761		TCCTCTTCAACATATTggggggTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCGCTA	5820
Sbjct	5761		TCCTCTTCAACATATTggggggTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCGCTA	5820
Query	5821		CTGCCCTTTTGGGTGCTGGCCTAGCTGGCGCCGC-CATCGGCAGCGTTGGACTGGGGGAG	5879
Sbjct	5821		CGCCCTTTTGGGCGCTGGCTTAGCTGGCGCCGCAC-TCGACAGCGTTGGACTGGGGGAG	5879
Query	5880		GTCCCTCGTGACATTCTTGCAGGGTATGGCGGGCGTGGCGGGAGCTCTTGTAGCATTC	5939
Sbjct	5880		GTCCCTCGTGACATTCTTGCAGGGTATGGCGGGCGTGGCGGGAGCTCTTGTGTGATTC	5939
Query	5940		AAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCGCCCATC	5999
Sbjct	5940		AAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCGCCCATC	5999
Query	6000		CTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTT	6059
Sbjct	6000		CTCTCACTTGAGCCCTTGCAGTCGGTGTGGTCTTGTGATCAATACTGCGCCGGCGTGT	6059
Query	6060		GGCCCGGGCAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGG	6119
Sbjct	6060		GGCCCGGGCAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGG	6119
Query	6120		AACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGCAGCCGCCCGGTCACCTGCC	6179
Sbjct	6120		AACCATGTTTCCCCACACACTACGTGCCGAGAGCGATGCAGCCGCCCGGTCACCTGCC	6179
Query	6180		ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Sbjct	6180		ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Query	6240		GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Sbjct	6240		GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Query	6300		GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6359
Sbjct	6300		GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6359
Query	6360		CCCTTTGTGCTCTGCCAGCGCGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419

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Sbjct 6360 |CCCTTTGTGTCCTGCCAGCGCGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCAC| 6419
Query 6420 |ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAACGGGACGATGAGGATC| 6479
Sbjct 6420 |ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAACGGGACGATGAGGATC| 6479
Query 6480 |GTCGGTCTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTACACC| 6539
Sbjct 6480 |GTCGGTCTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCTCTATTAAATGCTACACC| 6539
Query 6540 |ACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGGTGTCT| 6599
Sbjct 6540 |ACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGGTGTCT| 6599
Query 6600 |GCAGAGGAATACGTGGAGATAAGGCGGTTGGGGACITCCACTACGTATCGGGATGACT| 6659
Sbjct 6600 |GCAGAGGAATACGTGGAGATAAGGCGGTTGGGGACITCCACTACGTATCGGGATGACT| 6659
Query 6660 |ACTGACAACTCTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGAC| 6719
Sbjct 6660 |ACTGACAACTCTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGAC| 6719
Query 6720 |GGGGTGCCTACACAGGTTTTCGCGCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCA| 6779
Sbjct 6720 |GGGGTGCCTACATAGGTTTTCGCGCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCA| 6779
Query 6780 |TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCAGCCCGAACCG| 6839
Sbjct 6780 |TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCAGCCCGAACCG| 6839
Query 6840 |GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCATATAACAGCAGAGGCGGCC| 6899
Sbjct 6840 |GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCATATAACAGCAGAGGCGGCC| 6899
Query 6900 |GGGAGAAAGTTGGCGAGAGGGTACCCCTTCTATGGCCAGCTTCCTCGGCTAGCCAGCTG| 6959
Sbjct 6900 |GGGAGAAAGTTGGCGAGAGGGTACCCCTTCTATGGCCAGCTTCCTCGGCTAGCCAGCTG| 6959
Query 6960 |TCGCTCCATCTCTCAAGGCAACTTGCACCGCAACCATGACTCCCTGACGCCGAGCTC| 7019
Sbjct 6960 |TCGCTCCATCTCTCAAGGCAACTTGCACCGCAACCATGACTCCCTGACGCCGAGCTC| 7019
Query 7020 |ATAGAGGCTAACCTCCTGTGGAGCAGGAGATGGCGCGCAACATCACCAGGGTTGAGTCA| 7079
Sbjct 7020 |ATAGAGGCTAACCTCCTGTGGAGCAGGAGATGGCGCGCAACATCACCAGGGTTGAGTCA| 7079
Query 7080 |GAGAACAAAGTTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATGAGCGG| 7139
Sbjct 7080 |GAGAACAAAGTTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATGAGCGG| 7139
Query 7140 |GAGGTCTCCGTACCTGCAGAAATTTCGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCC| 7199
Sbjct 7140 |GAGGTCTCCGTACCCGCAGAAATTTCGCGGAAGTCTCGGAGATTGCGCCAGCCCTGCC| 7199
Query 7200 |GTCTGGGCGCGGCGGACTACAACCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTAC| 7259
Sbjct 7200 |GTCTGGGCGCGGCGGACTACAACCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTAC| 7259
Query 7260 |GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCCTGTGGCTCCG| 7319
Sbjct 7260 |GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCCTGTGGCTCCG| 7319
Query 7320 |CTTCGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCCTATCTACTGCCTTGGCCGAG| 7379
Sbjct 7320 |CTTCGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCCTATCTACTGCCTTGGCCGAG| 7379
Query 7380 |CTTGCCACCAAAAGTTTGGCAGCTCCTCAACTCCCGCATACGGGCGCAATACGACA| 7439
Sbjct 7380 |CTTGCCACCAAAAGTTTGGCAGCTCCTCAACTCCCGCATACGGGCGCAATACGACA| 7439
Query 7440 |ACATCCTCTGAGCCCGCCCTTCTGGCTGAGGAGGAGCTCCGACGTTGAGTCTATTCT| 7499
Sbjct 7440 |ACATCCTCTGAGCCCGCCCTTCTGGCTGCCCGCCGACTCCGACGTTGAGTCTATTCT| 7499
Query 7500 |TCCATGAGGAGGAGCTGGGGATCCGGATCTCAGCGACGGGTATGGTGC| 7559

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Sbjct	7500		TCCATGCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGGTGC	7559
Query	7560		ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTCTATCTCTGG	7619
Sbjct	7560		ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTCTATCTCTGG	7619
Query	7620		ACAGGCGCAGCTCTGACCCCGTGCCTGCGGAAGAAACAAAACTGCCATCAACGCAGCTG	7679
Sbjct	7620		ACAGGCGCAGCTCTGACCCCGTGCCTGCGGAAGAAACAAAACTGCCATCAACGCAGCTG	7679
Query	7680		AGCAACTCGTTGTACGCCATCACAATCTGGTGTAATCCACCACTTCACGCAGTGCTTGC	7739
Sbjct	7680		AGCAACTCGTTGTACGCCATCACAATCTGGTGTAATCCACCACTTCACGCAGTGCTTGC	7739
Query	7740		CAAAAGCAGAAAGAAATGACATTTTGACAGACTGCAAGTTCTGGACAGCCATTACAGGAC	7799
Sbjct	7740		CAAAAGCAGAAAGAAATGACATTTTGACAGACTGCAAGTTCTGGACAGCCATTACAGGAC	7799
Query	7800		GTGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAG	7859
Sbjct	7800		GTGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAG	7859
Query	7860		GAAAGCTTGACGCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
Sbjct	7860		GAAAGCTTGACGCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
Query	7920		GACGTCCTGTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTT	7979
Sbjct	7920		GACGTCCTGTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTT	7979
Query	7980		CTGGAAGACAGTGTAAACACCAATAGACACTACCATCATGCCCAAGAACGAGGTTTCTGC	8039
Sbjct	7980		CTGGAAGACAGTGTAAACACCAATAGACACTACCATCATGCCCAAGAACGAGGTTTCTGC	8039
Query	8040		GTTACGCTGAGAAAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTTCGCCAGCTGGGC	8099
Sbjct	8040		GTTACGCTGAGAAAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTTCGCCAGCTGGGC	8099
Query	8100		GTGCGCGTGTGCGAGAAATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTG	8159
Sbjct	8100		GTGCGCGTGTGCGAGAAATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTG	8159
Query	8160		ATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTGCAA	8219
Sbjct	8160		ATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTGCAA	8219
Query	8220		CGGTGGAAGTCCAAGAGACCCCGATGGGGTCTCGTATGATACCCGCTGTTTGTACTCC	8279
Sbjct	8220		CGGTGGAAGTCCAAGAGACCCCGATGGGGTCTCGTATGATACCCGCTGTTTGTACTCC	8279
Query	8280		ACAGTCACTGAGAGCGACATCCGTACGAGGAGGCAATTTACCAATGTTGTGACCTGGAC	8339
Sbjct	8280		ACAGTCACTGAGAGCGACATCCGTACGAGGAGGCAATTTACCAATGTTGTGACCTGGAC	8339
Query	8340		CCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT	8399
Sbjct	8340		CCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT	8399
Query	8400		ACCAATTCAAGGGGGGAAAATGCGGCTACCGCAGGTGCCGCCGAGCGGGTACTGACA	8459
Sbjct	8400		ACTAATTCAAGGGGGGAAAATGCGGCTACCGCAGGTGCCGCCGAGCAGAGTACTGACA	8459
Query	8460		ACTAGCTGTGGTAACACCTCACTTGTACATCAAGGCCCGGGCAGCCTGTGAGCCGCA	8519
Sbjct	8460		ACTAGCTGTGGTAACACCTCACTTGTACATCAAGGCCCGGGCAGCCTGTGAGCCGCA	8519
Query	8520		GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT	8579
Sbjct	8520		GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT	8579
Query	8580		GCGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTAC	8639
Sbjct	8580		GCGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTAC	8639
Query	8640		TCCGACCCCGGGGAGCCCAACACAGAAATACGACTTGGAGCTTATACATCATGC	8699

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Sbjct 8640 TCCGCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGC 8699
Query 8700 TCCTCCAACGTGTGTCAGTCGCCACGACGGCGTGGAAAGAGGGTCTACTACCTTACCCGT 8759
Sbjct 8700 TCCTCCAACGTGTGTCAGTCGCCACGACGGCGTGGAAAGAGGGTCTACTACCTTACCCGT 8759
Query 8760 GACCCATAACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAAT 8819
Sbjct 8760 GACCCATAACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAAT 8819
Query 8820 TCCTGGCTAGGCAACATAATCATGTTTGCCCCCAGCTGTGGGCGAGGATGATACTGATG 8879
Sbjct 8820 TCCTGGCTAGGCAACATAATCATGTTTGCCCCCAGCTGTGGGCGAGGATGATACTGATG 8879
Query 8880 ACCCATTTCTTTAGCGTCTCTATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGAG 8939
Sbjct 8880 ACCCATTTCTTTAGCGTCTCTATAGCCAGGGATCAGCTTGAACAGGCTCTCACTGCGAG 8939
Query 8940 ATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCAITCAAAGACTC 8999
Sbjct 8940 ATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCAITCAAAGACTC 8999
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Sbjct 9000 CATGGCCTCAGCGCATTTTCTACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCC 9059
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Sbjct 9060 GCATGCCTCAGAAAACCTGGGGTCCC GCCCTTGGCAGCTTGGAGACACCGGGCCGGAGC 9119
Query 9120 GTCCGCGTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTC 9179
Sbjct 9120 GTCCGCGTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTC 9179
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Sbjct 9180 AACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCGATAACGGGCGCTGGCCGGCTGGAC 9239
Query 9240 TTGTCGGTGTGGTTACAGGCTGGCTACAGCGGGGAGACATTTATACAGCGTGTCTCAT 9299
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Sbjct 9300 GCCCGGCCCGCTGGTTCTGGTTTTGCGCTACTCTGCTGCTGACAGGGGTAGGCATCTAC 9359
Query 9360 CTCTCTCCCAACCGATGAAGGTTGGGGTAAACACTCC-GGCTCTTAAGCCATTTCCCT 9416
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Length=9416

Score = 1.688e+04 bits (9140), Expect = 0.0
Identities = 9326/9418 (99%), Gaps = 4/9418 (0%)
Strand=Plus/Plus

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Sbjct 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAAGTACTG 60
Query 61 TCTTCACGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGAGCCTCAGGA 120
Sbjct 61 TCTTCACGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGAGCCTCAGGA 120
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Query 181 GACGACCGGGTCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC 240
Sbjct 181 GACGACCGGGTCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC 240
Query 241 GCAAGACTGTAGCCGAGTAGTGTGGGTCGCGAAAGGCCCTTGTGGTACTGCTGATAG 300

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Sbjct 241      |||
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Sbjct 301      |||
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Query 361      |||
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Sbjct 361      |||
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Query 421      |||
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Sbjct 421      |||
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Query 481      |||
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Sbjct 481      |||
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Query 541      |||
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Sbjct 541      |||
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Query 601      |||
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Sbjct 601      |||
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Query 661      |||
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Sbjct 661      |||
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Query 721      |||
CTGTCGGGCTTCGCCGACCTCATGGGGTACATACCGCTCTGTCGGCGCCCTCTTGGAGGCG 780
Sbjct 721      |||
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Query 781      |||
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Query 841      |||
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Sbjct 841      |||
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Query 901      |||
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Query 961      |||
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Query 1021      |||
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Sbjct 1021      |||
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Query 1081      |||
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Sbjct 1081      |||
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Query 1141      |||
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Sbjct 1141      |||
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Query 1201      |||
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Sbjct 1201      |||
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Query 1261      |||
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Query 1321      |||
CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGATCCCAAGCCATCATGGACA 1380
Sbjct 1321      |||
CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGATCCCAAGCCATCATGGACA 1380
Query 1381      |||
TGATCGCTGGTCTACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGA 1440

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Sbjct 1381 |TGATCGCTGGCGCCCACTGGGGAGTCTTGGCGGGCATAAAGTATTTCTCCATGGTGGGGA| 1440
Query 1441 |ACTGGGCGAAGGTCTCTGGTAGTGTCTGCTCTATTTCGCCGCGTGCACGCGGAAACCCAGC| 1500
Sbjct 1441 |ACTGGGCGAAGGTCTCTGGTAGTGTCTGCTCTATTTCGCCGCGTGCACGCGGAAACCCAGC| 1500
Query 1501 |TCACCGGGGAAATGCCGCGCGCACCCACGGCTGGGCTTGTGTGTCTCCTTACACAGGCG| 1560
Sbjct 1501 |TCACCGGGGAAATGCCGCGCGCACCCACGGCTGGGCTTGTGTGTCTCCTTACACAGGCG| 1560
Query 1561 |CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT| 1620
Sbjct 1561 |CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT| 1620
Query 1621 |TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGCTCTTCTATCAACACAAT| 1680
Sbjct 1621 |TGAAGTCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGCTCTTCTATCAGCACAAAT| 1680
Query 1681 |TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCCTTACCGATTTTGCCC| 1740
Sbjct 1681 |TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCCTTACCGATTTTGCCC| 1740
Query 1741 |AGGGCTGGGGTCTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTTACTGCT| 1800
Sbjct 1741 |AGGGCTGGGGTCTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTTACTGCT| 1800
Query 1801 |GGCACTACCTTCCAAGACCTTGTGGCATTTGTGCCCGAAAGACGCTGTGTGGCCGGTAT| 1860
Sbjct 1801 |GGCACTACCTTCCAAGACCTTGTGGCATTTGTGCCCGAAAGACGCTGTGTGGCCGGTAT| 1860
Query 1861 |ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTGGGGCGCGCTACCT| 1920
Sbjct 1861 |ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTGGGGCGCGCTACCT| 1920
Query 1921 |ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCTTAACAACACACAGGCCACCGCTGG| 1980
Sbjct 1921 |ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCTTAACAACACACAGGCCACCGCTGG| 1980
Query 1981 |GCAATTGGTTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC| 2040
Sbjct 1981 |GCAATTGGTTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC| 2040
Query 2041 |CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGGCTTCGCCCACTGATTGCTTCC| 2100
Sbjct 2041 |CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGGCTTCGCCCACTGATTGCTTCC| 2100
Query 2101 |GCAAACTCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT| 2160
Sbjct 2101 |GCAAAATATCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCAAGATTACACCCAGGT| 2160
Query 2161 |GCATGGTCGACTACCGTATAGGCTTTGGCATACTCCTTGTAACATCAATTACACCATAT| 2220
Sbjct 2161 |GCATGGTCGACTACCGTATAGGCTTTGGCATACTCCTTGTAACATCAATTACACCATAT| 2220
Query 2221 |TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGCAGGCTGGAAGCGGCTGCAACTGGA| 2280
Sbjct 2221 |TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGCAGGCTGGAAGCGGCTGCAACTGGA| 2280
Query 2281 |CGCGGGGCGAACGCTGTGATCTGGAAGACAGGACAGGTCAGGCTCAGCCGTTGCTGC| 2340
Sbjct 2281 |CGCGGGGCGAACGCTGTGATCTGGAAGACAGGACAGGTCAGGCTCAGCCGTTGCTGC| 2340
Query 2341 |TGTCACACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCTA| 2400
Sbjct 2341 |TGTCACACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCTA| 2400
Query 2401 |CCGGCTCATCCACCTCCACAGAACATTGTGGAGCTGCAGTACTTGTACGGGTAGGGT| 2460
Sbjct 2401 |CCGGCTCATCCACCTCCACAGAACATTGTGGAGCTGCAGTACTTGTACGGGTAGGGT| 2460
Query 2461 |CAAGCATCGGCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCTCTGCTTG| 2520
Sbjct 2461 |CAAGCATCGGCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCTCTGCTTG| 2520
Query 2521 |CAGACGCGCGCTCTGCTCTGCTTGTGGATGATGTTACTATATCCCAAGCGGAGGCGG| 2580
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Sbjct	2521		CAGACGCGCGCTGTTCTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581		CTTTGGAGAACTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACAGGTCTTGTGT	2640
Sbjct	2581		CTTTGGAGAACTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGATGGTCTTGTGT	2640
Query	2641		CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGGAGCGG	2700
Sbjct	2641		CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGGAGCGG	2700
Query	2701		TCTACGCCCTCTACGGGATGTGGCCTCTCCTCTGCTCCTGTGGCGTTGCCCTCAGCGGG	2760
Sbjct	2701		TCTACGCCCTCTACGGGATGTGGCCTCTCCTCTGCTCCTGTGGCGTTGCCCTCAGCGGG	2760
Query	2761		CATACGCACATGGACACGGAGGTGGCCGCGTCTGTGTGGCGCGTGTCTTGTGGGTTAA	2820
Sbjct	2761		CATACGCACATGGACACGGAGGTGGCCGCGTCTGTGTGGCGCGTGTCTTGTGGGTTAA	2820
Query	2821		TGGCGTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821		TGGCGTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCC	2940
Sbjct	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCCCGCTCAACGTCC	2940
Query	2941		GGGGGGGGCGCGATGCCGTCATCTTACTCAGTGTGTAGTACACCGCGCTTGGTATTG	3000
Sbjct	2941		GGGGGGGGCGCGATGCCGTCATCTTACTCAGTGTGTAGTACACCGCGCTTGGTATTG	3000
Query	3001		ACATACCAAATCTACTCTGCGCATCTTCGGACCCCTTTGGATTCTCAAGCCAGTTTGC	3060
Sbjct	3001		ACATACCAAATCTACTCTGCGCATCTTCGGACCCCTTTGGATTCTCAAGCCAGTTTGC	3060
Query	3061		TAAAGTCCCCACTTCTGTCGCGCTTCAAGGCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061		TAAAGTCCCCACTTCTGTCGCGCTTCAAGGCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Query	3121		AGATAGCCGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121		AGATAGCCGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181		CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCAACGGCTGCGAGATC	3240
Sbjct	3181		CCTGTGTGTATAACCATCTCAGCTCTCTTCGAGACTGGGCGCAACGGCTGCGAGATC	3240
Query	3241		TGGCGTGGCTGTGGAACCAAGTCGTCTTCTCCGAAATGGAGACCAAGTCATCACTGGG	3300
Sbjct	3241		TGGCGTGGCTGTGGAACCAAGTCGTCTTCTCCGAAATGGAGACCAAGTCATCACTGGG	3300
Query	3301		GGGCAGATACCGCGCGTGCCTGACATCATCAACGGCTTGGCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301		GGGCAGATACCGCGCGTGCCTGACATCATCAACGGCTTGGCCGTCTCTGCCCGTAGGG	3360
Query	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCAAGGGGTGGAGGTGTCTGG	3420
Sbjct	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCAAGGGGTGGAGGTGTCTGG	3420
Query	3421		CGCCCATCAGCGCGTACGCCAGCAGACGAGAGGCGCTCCTAGGGTGTATAATCACCAGC	3480
Sbjct	3421		CGCCCATCAGCGCGTACGCCAGCAGACGAGAGGCGCTCCTAGGGTGTATAATCACCAGC	3480
Query	3481		TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTTCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481		TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTTCAGATCGTGTCAACTGCTACCC	3540
Query	3541		AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACGGGGCCGGAA	3600
Sbjct	3541		AGACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACGGGGCCGGAA	3600
Query	3601		CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601		CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGAGGTATACCAATGTGGATCAAG	3660
Query	3661		ACCTTGTGGGCTGGCCGCTCTCAAGTTCCCGCTCATTGACACCTGTACCTGCGGCT	3720

Sbjct	3661	ACCTCGTGGGCTGGCCCGCTCTCAAGGTTCGCCGCTCATTGACACCTTGCACTGCGGCT	3720
Query	3721	CTCTCGGACCTTTACTGGTCACGAGGACACGCCGATGTCAITCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACTGGTCACGAGGACACGCCGATGTCAITCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCTGCTTTTCGCCCGCGGCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCTGCTTTTCGCCCGCGGCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCCATTACAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCCATTACAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGCTGTTACAGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGCTGTTACAGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCACCGGCAGCGGTAAAGAGCACCAAGGTCGCCGTGCGTACCGAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCACCGGCAGCGGTAAAGAGCACCAAGGTCGCCGTGCGTACCGAGCCA	4080
Query	4081	AGGGCTACAAGGTGTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTGGTGCTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTGTATCCTAATATCAGACCGGGGTGAGAACAAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTGTATCCTAATATCAGAGCCGGGTGAGAACAAATTACCA	4200
Query	4201	CTGGCAGCCCCATCAGTACTCCACTACCGCCAAAGTTCCTTGCCAGCGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCAGTACTCCACTACCGCCAAAGTTCCTTGCCAGCGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAAATTGTGTACGAGTGCCATCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAAATTGTGTACGAGTGCCATCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCATGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGTCG	4380
Sbjct	4321	CGGGCATCGGCATGTCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTACTGTGTCCATCTTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTACTGTGTCCATCTTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAGAGCATCTCATCTTCTGCCACTCAAGAAGAAAGTGGCAGAGCTCGCCCGGAAGC	4560
Sbjct	4501	GGGGAGAGCATCTCATCTTCTGCCACTCAAGAAGAAAGTGGCAGAGCTCGCCCGGAAGC	4560
Query	4561	TGTCGCATTGGGCATCAATGCCGTGGCCCTACTACCGCGGCTTGACGTGTCTGTCAATC	4620
Sbjct	4561	TGTCGCATTGGGCATCAATGCCGTGGCCCTACTACCGCGGCTTGACGTGTCTGTCAATC	4620
Query	4621	CGACCAGCGGGCATGTTGTGTCTGTGTGCACCGATGCTCTCATGACTTGGCTTTACCGGG	4680
Sbjct	4621	CGACCAGCGGGCATGTTGTGTCTGTGTGCACCGATGCTCTCATGACTTGGCTTTACCGGG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCACACGCTGTGTCACTCAGACAGTGCATTTACGCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCACACGCTGTGTCACTCAGACAGTGCATTTTACGCTTG	4740
Query	4741	ACCTACCTTTACCAATTGAGACAACACCGCTCCCCAGAGTGTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCTACCTTTACCAATTGAGACAACACCGCTCCCCAGAGTGTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGGAGC	4860

Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCTCGGGCAATGTCGACTCGTCGGTCTCTGTGAGTGCATGACGCGGGGTGTGCTT	4920
Sbjct	4861	GCCCCTCGGGCAATGTCGACTCGTCGGTCTCTGTGAGTGCATGACGCGGGGTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTTACGGGCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTTACGGGCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAGAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAGAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGTAGGGCTCAAGCCCTTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGTAGGGCTCAAGCCCTTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCCTTAAACCCACCTTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCCTTAAACCCACCTTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAAGATGAAGTACCCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAAGATGAAGTACCCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTGCGGCCGACCTGGAGGTGCTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTGCGGCCGACCTGGAGGTGCTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCTGTCTCAACAGGCTGCGTGGTCATAGTGGGAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCTGTCTCAACAGGCTGCGTGGTCATAGTGGGAGGATCG	5400
Query	5401	TCTTGTGCGGGAAGCGCGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTGCGGGAAGCGCGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCTGCTGTCCAGACCACTGGCAGAACTCGAGGCTCTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCTGCTGTCCAGACCACTGGCAGAACTCGAGGCTCTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCACCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCACCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGTGGCTGCCAGCTCGCCGCCCGCCGTCGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGTGGCTGCCAGCTCGCCGCCCGCCGTCGCCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCTAGCTGGCGCCGC-CATCGGCAGCGTTGGACTGGGGAAG	5879
Sbjct	5821	CTGCCCTTGTGGGTGCTGGCTAGCTGGCGCCGCAC-TGCAAGAGCTGGACTGGGGAAG	5879
Query	5880	GGCTCTGGGACATCTTTCAGGCTATGGCGGGGCTGGCGGGAGCTCTTGTAGCATTC	5939
Sbjct	5880	GTCTCTGGGACATCTTTCAGGCTATGGCGGGGCTGGCGGGAGCTCTTGTGGCATTTC	5939
Query	5940	AAGATCATGAGCGGTGAGGTCCCTTCACGGAGGACCTGGTCAATCGTCTGCCGCCATC	5999

Sbjct	5940	AAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATC	5999
Query	6000	CTCTCGCCTGGAAGCCCTTGTAGTCGGTGTGGTCTGCGCAGAATACTGCGCCGCGACGTT	6059
Sbjct	6000	CTCTCACCTGGAAGCCCTTGCAGTCGGTGTGGTCTTTCGATCAATACTGCGCCGCGGTGTT	6059
Query	6060	GGCCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCTCCCGGGGG	6119
Sbjct	6060	GGCCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCTCCCGGGGG	6119
Query	6120	AACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGGCTCACTGCC	6179
Sbjct	6120	AACCATGTTTCCCCCACACACTACGTGCCGGAGAGCGATGCAGCCGCCCGGCTCACTGCC	6179
Query	6180	ATACTCAGCAGCCTCACTGTAAACCGAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Sbjct	6180	ATACTCAGCAGCCTCACTGTAAACCGAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Query	6240	GAGTGTAACCACTCCATGCTCCGGTTCCTGCTCAAGGGACATCTGGGACTGGATATGCGAG	6299
Sbjct	6240	GAGTGTAACCACTCCATGCTCCGGTTCCTGCTCAAGGGACATCTGGGACTGGATATGCGAG	6299
Query	6300	GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCCTGGGATT	6359
Sbjct	6300	GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCCTGGGATT	6359
Query	6360	CCCTTTGTGCTCTGCCAGCGGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Sbjct	6360	CCCTTTGTGCTCTGCCAGCGGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Query	6420	ACTCGCTGCCACTGTGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Sbjct	6420	ACTCGCTGCCACTGTGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Query	6480	GTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACCGCTACACC	6539
Sbjct	6480	GTCGGTCTTAGGACCTGCAAGAACATGTGGAGTGGGACGTTCTTCATTAAATGCCTACACC	6539
Query	6540	ACGGGCCCCGTGACTCCCTTCCTGCGCCGAACATAAAGTTTCGCGCTGTGGAGGGTGCT	6599
Sbjct	6540	ACGGGCCCCGTGACTCCCTTCCTGCGCCGAACATAAAGTTTCGCGCTGTGGAGGGTGCT	6599
Query	6600	GCAGAGGAATACGTGGAGATAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACT	6659
Sbjct	6600	GCAGAGGAATACGTGGAGATAAGCGGGTGGGGGACTTCCACTACGTATCGGGCATGACT	6659
Query	6660	ACTGACAATCTTAAATGCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGAC	6719
Sbjct	6660	ACTGACAATCTCAAATGCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGAC	6719
Query	6720	GGGGTGCGCCTACACAGGTTTGCGCCCCCTTGAAGCCCTTGTCTGCGGGAGGAGGTATCA	6779
Sbjct	6720	GGGGTGCGCCTACATAGGTTTGCGCCCCCTTGAAGCCCTTGTCTGCGGGAGGAGGTATCA	6779
Query	6780	TTCAGAGTAGGACTCCACAGTACCCTGGGGTTCGCAATTACCTTGCAGAGCCGGAACCG	6839
Sbjct	6780	TTCAGAGTAGGACTCCACAGTACCCTGGGGTTCGCAATTACCTTGCAGAGCCGGAACCG	6839
Query	6840	GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATAAACAGCAGAGGCGGCC	6899
Sbjct	6840	GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATAAACAGCAGAGGCGGCC	6899
Query	6900	GGGAGAAGGTTGGCGAGAGGGTCACCCCCCTTCTATGGCCAGCTCCTTCGGCTAGCCAGCTG	6959
Sbjct	6900	GGGAGAAGGTTGGCGAGAGGGTCACCCCCCTTCTATGGCCAGCTCCTTCGGCTAGCCAGCTG	6959
Query	6960	TCCGCTTCACTCTCAAGGCAACTTGCACCGCAACCATGACTCCCTGACGCCAGCTC	7019
Sbjct	6960	TCGCGTCCATCTCTCAAGGCAACTTGCACCGCAACCATGACTCCCTGACGCCAGCTC	7019
Query	7020	ATAGAGGCTAACTCTCTGTGAGGCGAGGAGATGGCGGCAACATCACCAGGGTTGAGTCA	7079
Sbjct	7020	ATAGAGGCTAACTCTCTGTGAGGCGAGGAGATGGCGGCAACATCACCAGGGTTGAGTCA	7079
Query	7080	GAGAACAAAGTGGTGATTCTGGACTCCTTCGATTCGCTTGTGGCAGAGGAGGTAGACGG	7139

Sbjct	7080	GAGAACAAAGTGGTGATTCTTGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
Query	7140	GAGGTCCTCGTACCTCGAGAAATTCGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCC	7199
Sbjct	7140	GAGGTCTCGTACCCGCAGAAATTCGCGGAAGTCTCGGAGATTGCCCCAGGCCCTGCC	7199
Query	7200	GTCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGAAAAAGCCTGACTAC	7259
Sbjct	7200	GTCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGAAAAAGCCTGACTAC	7259
Query	7260	GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCCTCTGTGCTCCG	7319
Sbjct	7260	GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCCTCTGTGCTCCG	7319
Query	7320	CCTCGGAAAAAGCGTACGGTGGTCTCTACCGAATCAACCCATCTACTGCTTGGCCGAG	7379
Sbjct	7320	CCTCGGAAAAAGCGTACGGTGGTCTCTACCGAATCAACCCATCTACTGCTTGGCCGAG	7379
Query	7380	CTTGCCACCAAAAGTTTGTGCAGCTCCTCAACTTCGGGCATTACGGGGGACAAATACGACA	7439
Sbjct	7380	CTTGCCACCAAAAGTTTGTGCAGCTCCTCAACTTCGGGCATTACGGGGGACAAATACGACA	7439
Query	7440	ACATCCTCTGAGCCCGCCCTTCTGGCTGCCCGCCCGACTCCGACGTTGAGTCTATTCT	7499
Sbjct	7440	ACATCCTCTGAGCCCGCCCTTCTGGCTGCCCGCCCGACTCCGACGTTGAGTCTATTCT	7499
Query	7500	TCCATGCCCCCGTGGAGGGGGAGCTGGGGATCCGGATCTCAGCGACGGGTCTATGGTCG	7559
Sbjct	7500	TCCATGCCCCCCCTGGAGGGGGAGCTGGGGATCCGGATCTCAGCGACGGGTCTATGGTCG	7559
Query	7560	ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCG	7619
Sbjct	7560	ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCG	7619
Query	7620	ACAGGCGCACTGCTCACCCGCTGCCTGCGGAGAAACAAATGCTTCAACACGACTG	7679
Sbjct	7620	ACAGGCGCACTGCTCACCCGCTGCCTGCGGAGAAACAAATGCTTCAACACGACTG	7679
Query	7680	AGCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTCAGCAGTGCTTGC	7739
Sbjct	7680	AGCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTCAGCAGTGCTTGC	7739
Query	7740	CAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC	7799
Sbjct	7740	CAAAGGAAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC	7799
Query	7800	GTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAG	7859
Sbjct	7800	GTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAG	7859
Query	7860	GAAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
Sbjct	7860	GAAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
Query	7920	GACGTCCTGTGCCATGCCAGAAAGCGGTAGCCCCACATCAACTCCGTGTGGAAGACCTT	7979
Sbjct	7920	GACGTCCTGTGCCATGCCAGAAAGCGGTAGCCCCACATCAACTCCGTGTGGAAGACCTT	7979
Query	7980	CTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTCTGC	8039
Sbjct	7980	CTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTCTGC	8039
Query	8040	GTTCAGCCTGAGAAGGGGGTGTGAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGC	8099
Sbjct	8040	GTTCAGCCTGAGAAGGGGGTGTGAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGC	8099
Query	8100	GTGCGCGTGTGCGAAGATGCGCCCTGTACAGCTGGTAGCAAGCTCCCCCTGGCCGTG	8159
Sbjct	8100	GTGCGCGTGTGCGAAGATGCGCCCTGTACAGCTGGTAGCAAGCTCCCCCTGGCCGTG	8159
Query	8160	ATGGGAAGCTCTCTACGGATTCCAATTACTACACAGGACAGCGGGTTGAATTCTCTGTGCAA	8219
Sbjct	8160	ATGGGAAGCTCTCTACGGATTCCAATTACTACACAGGACAGCGGGTTGAATTCTCTGTGCAA	8219
Query	8220	GCGTGGAAATCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCC	8279

Sbjct	8220	CGCTGGAAATCCAAGAGACCCCGATGGGCTCTCGTATGATACCCGCTGTTTGGATCC	8279
Query	8280	ACAGTCAGCTAGAGAGCGATCCGTCACGGAGGAGGCAATTACCAATGTTGTGACCTGGAC	8339
Sbjct	8280	ACAGTCAGCTAGAGAGCGATCCGTCACGGAGGAGGCAATTACCAATGTTGTGACCTGGAC	8339
Query	8340	CCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT	8399
Sbjct	8340	CCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT	8399
Query	8400	ACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGTGCCGCGCAGCGGCGTACTGACA	8459
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Query	8460	ACTAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCCGCA	8519
Sbjct	8460	ACTAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCCGCA	8519
Query	8520	GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT	8579
Sbjct	8520	GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT	8579
Query	8580	GCGGGGGTCCAGGAGGACGCGCGCAGGCTGAGAGCCTTACGGAGGCTATGACCAGGTAC	8639
Sbjct	8580	GCGGGGGTCCAGGAGGACGCGCGCAGGCTGAGAGCCTTACGGAGGCTATGACCAGGTAC	8639
Query	8640	TCCGccccccggggagcccccaCAACCAAGAATACGACTTGGAGCTTATAACATCATGC	8699
Sbjct	8640	TCCGCCCCCCCGGGGACCCCCAACAACCAAGAATACGACTTGGAGCTTATAACATCATGC	8699
Query	8700	TCTTCCAACGTGTGAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGT	8759
Sbjct	8700	TCTTCCAACGTGTGAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGT	8759
Query	8760	GACCCACAAACCCCCCTCGGAGAGCGCGCTGGGAGACAGACACATCACTCAGTCAAT	8819
Sbjct	8760	GACCCACAAACCCCCCTCGGAGAGCGCGCTGGGAGACAGACATCACTCAGTCAAT	8819
Query	8820	TCTTGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGCGAGGATGATACTGATG	8879
Sbjct	8820	TCTTGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGCGAGGATGATACTGATG	8879
Query	8880	ACCCATTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGAG	8939
Sbjct	8880	ACCCACTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGAG	8939
Query	8940	ATCTACGGAGCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTC	8999
Sbjct	8940	ATCTACGGAGCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTC	8999
Query	9000	CATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGTGAAATCAATAGGGTGGCC	9059
Sbjct	9000	CATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGTGAAATCAATAGGGTGGCC	9059
Query	9060	GCATGCTCAGAAAACTTGGGGTCCCGCCCTTGCAGAGCTGGAGACACCGGGCCGGAGC	9119
Sbjct	9060	GCATGCTCAGAAAACTTGGGGTCCCGCCCTTGCAGAGCTGGAGACACCGGGCCGGAGC	9119
Query	9120	GTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAAGGCTGCCATATGTGGCAAGTACCTCTTC	9179
Sbjct	9120	GTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAAGGCTGCCATATGTGGCAAGTACCTCTTC	9179
Query	9180	AATCGGCAGTAGAAGACAAAGCTCAAACTCACTCCAATAGCGGCCGTGGCCGGCTGGAC	9239
Sbjct	9180	AATCGGCAGTAGAAGACAAAGCTCAAACTCACTCCAATAGCGGCCGTGGCCGGCTGGAC	9239
Query	9240	TGTTCGGTGTGGTTCACGGCTGGCTACACGGGGGAGACATTATACAGCGTGTCAT	9299
Sbjct	9240	TGTTCGGCTGTGTTCACGGCTGGCTACACGGGGGAGACATTATACAGCGTGTCAT	9299
Query	9300	GCCCGCCCGCTGGTTCTGGTTTTGGCTACTCTGCTGCTGCAGGGTAGGCATCTAC	9359
Sbjct	9300	GCCCGCCCGCTGGTTCTGGTTTTGGCTACTCTGCTGCTGCAGGGTAGGCATCTAC	9359
Query	9360	CTCTCCCCAACCGATGAAGGTTGGGGTAACACTCC-GGCTCTTAAGCCATTTCCT	9416

Sbjct 9360 CTCCTCCCCAACCGATGAAGATTGGGCTAACCACTCCAGGCCAAT-AGGCCATTCCCT 9416

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Score = 1.688e+04 bits (9140), Expect = 0.0
Identities = 9326/9418 (99%), Gaps = 4/9418 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAAC TACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAAC TACTG	60
Query	61	TC TTCACG CAGA AAGCGT CTAGCCATGGCGTTAGTATGAGTGTCTGTGACGCCTCCAGGA	120
Sbjct	61	TC TTCACG CAGA AAGCGT CTAGCCATGGCGTTAGTATGAGTGTCTGTGACGCCTCCAGGAC	120
Query	121	CCCCC TCCCGG GAGAGCCATAGTGGTCTGCGGAAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGG GAGAGCCATAGTGGTCTGCGGAAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCC TTTCTTGGATAAACC CGCTCAATGCTTGAGATTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCC TTTCTTGGATAAACC CGCTCAATGCTTGAGATTGGGCGTGCCCC	240
Query	241	GCAAGACTGTAGCCGAGTAGTGTGGTGC GGAAGGCC TGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGTAGCCGAGTAGTGTGGTGC GGAAGGCC TGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGC GAGTGCCCGG GAGGTCTGTAGACGTGCACATGAGCAGCAATCTAAAC	360
Sbjct	301	GTGCTTGC GAGTGCCCGG GAGGTCTGTAGACGTGCACATGAGCAGCAATCTAAAC	360
Query	361	CTCAAGAAAAAACCAACGTATACCAACCGTCGCCACAGGAGCTCAAGTTC CCGGGTG	420
Sbjct	361	CTCAAGAAAAAACCAACGTATACCAACCGTCGCCACAGGAGCTCAAGTTC CCGGGTG	420
Query	421	GCGGT CAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTG	480
Sbjct	421	GCGGT CAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTG	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTACGCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTACGCTATCCCCA	540
Query	541	AGGCACGTGCGCCGAGGGCAGGACCTGGGCTCAGCCGGGTACCTTGGCCCTCTATG	600
Sbjct	541	AGGCACGTGCGCCGAGGGCAGGACCTGGGCTCAGCCGGGTACCTTGGCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCTCTGTCTCCCGTGGCTCTCGGCC TAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCTCTGTCTCCCGTGGCTCTCGGCC TAGCT	660
Query	661	GGGGCCCCACAGACCCCGCGCTAGGTGCGGCAATTGGGTAAAGGTCATCGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCGCGCTAGGTGCGGCAATTGGGTAAAGGTCATCGATACCCCTTA	720
Query	721	CTGTCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTGGCGCCCCCTCTTGGAGGCG	780
Sbjct	721	CTGTCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTGGCGCCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGAGCGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGAGCGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCTCTGGTGTCTTTCTCTATCTTCTTCTGGCCCTGCTCTTGGCTGACTG	900
Sbjct	841	GGAACCTTCTCTGGTGTCTTTCTCTATCTTCTTCTGGCCCTGCTCTTGGCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGGCAATTCTCTGGGGCTTTACCATGTACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGGCAATTCTCTGGGGCTTTACCATGTACCAATGATT	960
Query	961	GCCTTAACTCAGATATTGTGTACGAGGCGCGGATGCCATCCTGCACACTCCGGGGTGTG	1020

Sbjct	961	GCCCTAACTCGAGTGTGTGTGACGAGCGGCCGATGCCATCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGC GTTCGGAGGGGTAAACGCTCGAGGTGTTGGGTGGCGGTGACCCCAACGGTGG	1080
Sbjct	1021	TCCCTTGC GTTCGGAGGGGTAAACGCTCGAGGTGTTGGGTGGCGGTGACCCCAACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCAACACGAGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCAACACGAGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Query	1141	GGAGCGCCACCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Query	1201	TGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCAATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCAATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCTACGGCAGCGTGGTGGTAGCTCAGTGTCTCCGGATCCCAAGGCATCATGGACA	1380
Sbjct	1321	CCCTACGGCAGCGTGGTGGTAGCTCAGTGTCTCCGGATCCCAAGGCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCAGTGGGGAGTCCTGGCGGGCATAGCGTATTTCCTCATGTTGGGA	1440
Sbjct	1381	TGATCGCTGGCGCCACTGGGGAGTCCTGGCGGGCATAAAGTATTTCCTCATGTTGGGA	1440
Query	1441	ACTGGGCGAAGTCTCGGTAGTGCTGCTGCTATTTCGCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCTCGGTAGTGCTGCTGCTATTTCGCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACGGGGGAAATGCGGGCCGACACGCTGCGCTGGGCTTGTGGTCTCCCTACACAGGCG	1560
Sbjct	1501	TCACGGGGGAAATGCGGGCCGACACGCTGCGCTGGGCTTGTGGTCTCCCTACACAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACGTATCAACACCAACGGCAGTTGGCACAATCAATAGCAGCGCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACGTATCAACACCAACGGCAGTTGGCACAATCAATAGCAGCGCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAT	1680
Sbjct	1621	TGAAC TGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCCTACCGATTTTGCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCCTACCGATTTTGCC	1740
Query	1741	AGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCTCCAAAGACCTTGTGGCAATGTGCCCGCAAAGAGCGTGTGTGGCCGGGTAT	1860
Sbjct	1801	GGCACTACCTCCAAAGACCTTGTGGCAATGTGCCCGCAAAGAGCGTGTGTGGCCGGGTAT	1860
Query	1861	ATTGCTTCACTCCAGCCCGGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCAGCCCGGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAAATGATAGGATGTCTTCGTCTCTTAACAAACACGAGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAAATGATAGGATGTCTTCGTCTCTTAACAAACACGAGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAAACACTTGCTCTGCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAAACACTTGCTCTGCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160

Sbjct	2101		GCAAAATATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCAGGATTACACCCAGGT	2160
Query	2161		GCATGGTGCCTACCCGATATAGGCTTTGGCAGTATCCCTTGATACCATCAATTACACCATAT	2220
Sbjct	2161		GCATGGTGCCTACCCGATATAGGCTTTGGCAGTATCCCTTGATACCATCAATTACACCATAT	2220
Query	2221		TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221		TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGCTGGAAGCGGCTGCAACTGGA	2280
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Sbjct	2281		CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341		GTGCCACACACAGTGGCAGGTCTTCCGTGTTCTTTCAGCAGCTGCCAGCCTTGCCA	2400
Sbjct	2341		GTGCCACACACAGTGGCAGGTCTTCCGTGTTCTTTCAGCAGCTGCCAGCCTTGCCA	2400
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Sbjct	2401		CCGGCTCATCCACCTCCACAGAACATGTGGACGTGCAGTACTGTACGGGGTAGGGT	2460
Query	2461		CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCTCTGCTTG	2520
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Query	2521		CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521		CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581		CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCGGGACGCACGGTCTTGTTG	2640
Sbjct	2581		CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCGGGACGCATGGTCTTGTTG	2640
Query	2641		CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGGAGCGG	2700
Sbjct	2641		CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGGAGCGG	2700
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Sbjct	2701		TCACGCCCTCTACGGGATGTGGCCTCTCTCTGCTCTCTGCTGGCGTTGCTCAGCGGG	2760
Query	2761		CATACGCACCTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGCGGTTAA	2820
Sbjct	2761		CATACGCACCTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGCGGTTAA	2820
Query	2821		TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGATGTGGTGGCTTC	2880
Sbjct	2821		TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGATGTGGTGGCTTC	2880
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Sbjct	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCACTGCC	2940
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Sbjct	2941		GGGGGGGGCGCGATGCCGTCATCTTACTCACGTGTGTAGTACACCGCGCTTGGTATTG	3000
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Sbjct	3001		ACATCACCAACTACTCTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061		TTAAAGTCCCTACTTCTGTGCGGCTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061		TTAAAGTCCCTACTTCTGTGCGGCTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
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Sbjct	3121		AGATAGCCGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
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Sbjct	3181		CCTGTGTGTATAACCATCTCCTCTCTTCGAGACTGGGCGCACACGGCCTGCGAGATC	3240
Query	3241		TGGCGTGGCTGTGGAACAGTCTCTTCTCCCGAATGGAGACCAAGCTCATCAGTGGG	3300

Sbjct 3241 | TGGCCGTGGCTGTGGAAACAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG | 3300
Query 3301 | GGGCAGATACCGCCGGTGGCGTGACATCATCAACGGCTTGGCCGCTCTGCCCCGTAGGG | 3360
Sbjct 3301 | GGGCAGATACCGCCGGTGGCGTGACATCATCAACGGCTTGGCCGCTCTGCCCCGTAGGG | 3360
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Sbjct 3361 | GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCAAGGGGTGGAGGTGTGCTGG | 3420
Query 3421 | CGCCCATCACGGCGTACGCCACGAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC | 3480
Sbjct 3421 | CGCCCATCACGGCGTACGCCACGAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC | 3480
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Query 3541 | AAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAACGGGCGGAA | 3600
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Sbjct 3601 | CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGAGGTATACCAATGTGGATCAAG | 3660
Query 3661 | ACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCCGTGACCTGCGGCT | 3720
Sbjct 3661 | ACCTGTTGGGCTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCCGTGACCTGCGGCT | 3720
Query 3721 | CCTCGGACCTTTTACCTGGTACGAGGCACGCCGATGTCTATTCCCGTGCAGCGGCGAGGTG | 3780
Sbjct 3721 | CCTCGGACCTTTTACCTGGTACGAGGCACGCCGATGTCTATTCCCGTGCAGCGGCGAGGTG | 3780
Query 3781 | ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCAATTTCTACTTTGAAAGGCTTCCTCGGGG | 3840
Sbjct 3781 | ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCAATTTCTACTTTGAAAGGCTTCCTCGGGG | 3840
Query 3841 | GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCCTATTACAGGCGCCGCTGTGCACCC | 3900
Sbjct 3841 | GTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCCTATTACAGGCGCCGCTGTGCACCC | 3900
Query 3901 | GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT | 3960
Sbjct 3901 | GTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT | 3960
Query 3961 | CCCCAGGTGTTACGGACAACCTCCTCTCCACAGCAGTGCACCAAGCTTCAGGTGGGCC | 4020
Sbjct 3961 | CCCCAGGTGTTACGGACAACCTCCTCTCCACAGCAGTGCACCAAGCTTCAGGTGGGCC | 4020
Query 4021 | ACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGACGCC | 4080
Sbjct 4021 | ACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGACGCCA | 4080
Query 4081 | AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT | 4140
Sbjct 4081 | AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTT | 4140
Query 4141 | ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATTACCA | 4200
Sbjct 4141 | ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGACAATTACCA | 4200
Query 4201 | CTGGCAGCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCACGAGCGGGGTGCTCAG | 4260
Sbjct 4201 | CTGGCAGCCCATCAGCTACTCCACCTACGGCAAGTTCCTTGCACGAGCGGGGTGCTCAG | 4260
Query 4261 | GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT | 4320
Sbjct 4261 | GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT | 4320
Query 4321 | TGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTGTGCTCG | 4380
Sbjct 4321 | CGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTGTGCTCG | 4380
Query 4381 | CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTAACATCGAGGAGGTGCTC | 4440

Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGCTCACTGTGCCCCATCTAACATCAGGAGGTTGCTC	4440
Query	4441	TGTCACCACCAGGAGATGCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCACCACCAGGAGATGCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGCTGTCAATCC	4620
Sbjct	4561	TGGTCGATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGCTGTCAATCC	4620
Query	4621	CGACCAGCGGGCATGTTGTGCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGC	4680
Sbjct	4621	CGACCAGCGGGCATGTTGTGCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGC	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCTTG	4740
Query	4741	ACCTTACCTTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCTTACCTTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTGCACTCGTCCGTCCTCTGTGAGTGCATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTGCACTCGTCCGTCCTCTGTGAGTGCATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTACCGCCCGCGAGACTACAGTTAGGCTACGAGCGTATACGGAACCCCGG	4980
Sbjct	4921	GGTATGAGCTACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTATACGGAACCCCGG	4980
Query	4981	GGCTCCCGGTGTGCCAGGACCATCTTGAAATTTGGGAGGGCGTCTTTACGGGCTCACTC	5040
Sbjct	4981	GGCTCCCGGTGTGCCAGGACCATCTTGAAATTTGGGAGGGCGTCTTTACGGGCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAACTTTCTCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAACTTTCTCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGCGGAAGTGTTTGATCCGCCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGATGAAGTCACCTTGACGCACCCAATCACCACATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGATGAAGTCACCTTGACGCACCCAATCACCACATACATCATGA	5280
Query	5281	CATGCAATGTCGGCCGACCTGGAGGTCTGCACAGCACCCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCAATGTCGGCCGACCTGGAGGTCTGCACAGCACCCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCTCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCTCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGACAGGAGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGACAGGAGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAGCAGAGAAGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATCGAGAGGTTATCA	5580

Sbjct	5521	AGTTCAAGCAGAAAGGCCCTGGCCCTCTGCAGACCCGCTCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCGCTGCTCCAGACCAACTGGCAGAAACTCGAGGCTTTTGGGGCAGACACATGTGGA	5640
Sbjct	5581	CCCCGCTGCTCCAGACCAACTGGCAGAAACTCGAGGCTTTTGGGGCAGACACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCTCTTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGTGCCGCTA	5820
Sbjct	5761	TCTCTTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCTAGCTGGCGCCGC-CATCGCAGCGTTGGACTTGGGAAG	5879
Sbjct	5821	CCGCCCTTTGTGGCGCTGGCTAGCTGGCGCCGCAC-TCGACAGCGTTGGACTTGGGAAG	5879
Query	5880	GTCCTCGTGGACATCTTCAGAGGATATGGCGGGCGGTGGCGGGAGCTCTGTAGCATTC	5939
Sbjct	5880	GTCCTCGTGGACATCTTCAGAGGATATGGCGGGCGGTGGCGGGAGCTCTGTGGCATTC	5939
Query	5940	AAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCGCCATC	5999
Sbjct	5940	AAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCGCCATC	5999
Query	6000	CTCTCGCTGGAGCCCTTGATGTCGGTGGTCTGCGCAGCAATACTGCGCCGCGACGTT	6059
Sbjct	6000	CTCTCAGCTGGAGCCCTTGAGCTGGGTGGTCTTTGCATCAATACCTGCGCCGCGGTGT	6059
Query	6060	GGCCCGGGCGAGGGGGCGTGAATGATGAACCGGCTAATAGCTTCGCTTCCGGGGG	6119
Sbjct	6060	GGCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCTTCGCTTCCGGGGG	6119
Query	6120	AACCATGTTTCCCCCAGCAGCTACGTGCGGAGAGCGATGAGCGCCCGCGGTCACTGCC	6179
Sbjct	6120	AACCATGTTTCCCCCAGCAGCTACGTGCGGAGAGCGATGAGCGCCCGCGGTCACTGCC	6179
Query	6180	ATACTCAGCAGCCTCACTGTAAACCAGCTCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Sbjct	6180	ATACTCAGCAGCCTCACTGTAAACCAGCTCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Query	6240	GAGTGTAACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Sbjct	6240	GAGTGTAACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Query	6300	GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6359
Sbjct	6300	GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6359
Query	6360	CCCTTTGTGTCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Sbjct	6360	CCCTTTGTGTCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Query	6420	ACTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Sbjct	6420	ACTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Query	6480	GTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACC	6539
Sbjct	6480	GTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCTTCATTAATGCCTACACC	6539
Query	6540	ACGGGCCCTGTACTCCCTTCTGCGCGAATATAAGTTTCGCGCTGTGGAGGTTGCT	6599
Sbjct	6540	ACGGGCCCTGTACTCCCTTCTGCGCGCAACTATAAGTTTCGCGCTGTGGAGGTTGCT	6599
Query	6600	GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGATGACT	6659
Sbjct	6600	GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGATGACT	6659
Query	6660	ACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGAC	6719


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Sbjct 6660 ACTGACAATCTCAAAATGCCCGTGCCAGATCCCATGCCCGGAATTTTTCACAGAATTGGAC 6719
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Sbjct 6720 GGGGTGCGCCTACATAGGTTTGCGCCCTTGCAAGCCCTTGTCTGCGGAGGAGGATATCA 6779
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Sbjct 6780 TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCAGAGCCGAACCG 6839
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Sbjct 6840 GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCC 6899
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Sbjct 7200 GTCTGGGCGCGGCCGACTACAACCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTAC 7259
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Sbjct 7260 GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCTGTGCTCCG 7319
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Sbjct 7440 ACATCCTCTAGAGCCGCCCTTCTGGCTGCCCGCCGACTCCGAGTTGAGTCTCTATTCT 7499
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Sbjct 7860 GAAGCTTGCAGCCTGCGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAA 7919
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Sbjct 7920 GACGTCGGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTT 7979
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Sbjct 9360 CTCCTCCCCAACCGATGAAGATTGGGCTAACCACTCCAGGCCAAT-AGGCCATTTCCT 9416

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>dbj|BD442677.1| VACCINES CONTAINING RIBAVIRIN AND METHODS OF USE THEREOF
Length=9416

Score = 1.688e+04 bits (9140), Expect = 0.0
Identities = 9326/9418 (99%), Gaps = 4/9418 (0%)
Strand=Plus/Plus

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Sbjct 1 GCCAGCCCCCTGATGGGGCGCACTCCACCATGAATCACTCCCTGTGAGGAACACTAGT 60
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Sbjct 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCGCTCCAGGAG 120
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Sbjct 121 CCCCCCTCCCGGGAGGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
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Sbjct 181 GACGACCGGGTCTTTCTTGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC 240
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Sbjct 301 GTGCTTGCAGTGTCCCGGGAGGCTCTGTAGACCGGTGCACCATGAGCAGCAATCCTAAAC 360
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Sbjct 361 CTCAGAGAAAAACCAACGTAACACCAACCGTCGCGCCACAGGACGTCAAGTTCCTGGGTG 420
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Sbjct 481 GCGGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCCA 540
Query 541 AGGCACGTGCGGCCGAGGGCAGGACCTGGGCTACGCCCGGTACCTTGGCCCTCTATG 600

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Sbjct 541      |
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Sbjct 601      |
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Query 661      |
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Sbjct 841      |
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Query 901      |
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Sbjct 901      |
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Query 961      |
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Sbjct 961      |
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Query 1021     |
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Sbjct 1021     |
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Query 1081     |
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Sbjct 1081     |
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Query 1141     |
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Sbjct 1141     |
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Query 1201     |
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Query 1261     |
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Sbjct 1261     |
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Query 1321     |
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Sbjct 1321     |
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Sbjct 1501     |
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Sbjct 1561     |
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Query 1681     |
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Sbjct 1681 | TCAACTCTTCAGGCTGTCTTGAGAGGTTGGCCAGCTGCCGACGCCCTTACCGATTITGCC 1740
Query 1741 | AGGGCTGGGGTTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTTACTGCT 1800
Sbjct 1741 | AGGGCTGGGGTTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTTACTGCT 1800
Query 1801 | GGCACCTACCTCCAAAGACCTTGTGGCATTGTGCCCGAAAGAGCGTGTGTGGCCCGGTAT 1860
Sbjct 1801 | GGCACCTACCTCCAAAGACCTTGTGGCATTGTGCCCGAAAGAGCGTGTGTGGCCCGGTAT 1860
Query 1861 | ATTGCTTCACCTCCAGCCCGGTGGTGGTGGGAACGACGACAGGTGCGGCAGCGCTACCT 1920
Sbjct 1861 | ATTGCTTCACCTCCAGCCCGGTGGTGGTGGGAACGACGACAGGTGCGGCAGCGCTACCT 1920
Query 1921 | ACAGCTGGGGTGCAATGATACGGATGTCTTCGTCTTAAACACACGAGCCACCGCTGG 1980
Sbjct 1921 | ACAGCTGGGGTGCAATGATACGGATGTCTTCGTCTTAAACACACGAGCCACCGCTGG 1980
Query 1981 | GCAATTGGTTCGGTTGTACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGC 2040
Sbjct 1981 | GCAATTGGTTCGGTTGTACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGC 2040
Query 2041 | CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGTCTGCCCCACTGATTGCTTCC 2100
Sbjct 2041 | CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGTCTGCCCCACTGATTGCTTCC 2100
Query 2101 | GCAAACATCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT 2160
Sbjct 2101 | GCAAATATCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCACAGGATTACACCCAGGT 2160
Query 2161 | GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT 2220
Sbjct 2161 | GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT 2220
Query 2221 | TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAACAGGCTGGAAGCGGCCTGCAACTGGA 2280
Sbjct 2221 | TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAACAGGCTGGAAGCGGCCTGCAACTGGA 2280
Query 2281 | CGCGGGGCGAAGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTGTCTGC 2340
Sbjct 2281 | CGCGGGGCGAAGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTGTCTGC 2340
Query 2341 | TGTCCACACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCTTGCAGCCTTGTCCA 2400
Sbjct 2341 | TGTCCACACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCTTGCAGCCTTGTCCA 2400
Query 2401 | CGGGCTCATCCACCTCCACAGAACATTGTGGACGTGACGACTTGTACGGGGTAGGGT 2460
Sbjct 2401 | CGGGCTCATCCACTCCACAGAACATTGTGGACGTGACGACTTGTACGGGGTAGGGT 2460
Query 2461 | CAAGCATCGCGTCTTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCTTCTGCTTG 2520
Sbjct 2461 | CAAGCATCGCGTCTTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCTTCTGCTTG 2520
Query 2521 | CAGACGCGCGCTGCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG 2580
Sbjct 2521 | CAGACGCGCGCTGCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG 2580
Query 2581 | CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGCTTGTGT 2640
Sbjct 2581 | CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGATGGCTTGTGT 2640
Query 2641 | CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGAGAGCGG 2700
Sbjct 2641 | CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGAGAGCGG 2700
Query 2701 | TCTACGCCCTCTACGGGATGTGGCCTCTCTCTGCTCTGCTGCGGTGCTTACGCGGG 2760
Sbjct 2701 | TCTACGCCCTCTACGGGATGTGGCCTCTCTCTGCTCTGCTGCGGTGCTTACGCGGG 2760
Query 2761 | CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTCTTCTGTGGGTTAA 2820
Sbjct 2761 | CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTCTTCTGTGGGTTAA 2820
Query 2821 | TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGCTTC 2880

Sbjct	2821		TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTC cccccc TCAAGCTCC	2940
Sbjct	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTC CCCCCCT CAAGCTCC	2940
Query	2941		ggggggg CGCGATGCCGTCATCTTACTCATGTGTAGTACACCCGACCCCTGGTATTG	3000
Sbjct	2941		GGGGGGGCGCGATGCCGTCATCTTACTCAGCTGTGTAGTACACCCGCGCTGGTATTG	3000
Query	3001		ACATACCAAACTACTCCTGGCCATCTTCGGACCCCTTGGATTCTTCAAGCCAGTTTG	3060
Sbjct	3001		ACATACCAAACTACTCCTGGCCATCTTCGGACCCCTTGGATTCTTCAAGCCAGTTTG	3060
Query	3061		TAAAGTCCCCTACTCTGTGCGGCTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061		TAAAGTCCCCTACTCTGTGCGGCTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Query	3121		AGATAGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGCGCTTACTGGCA	3180
Sbjct	3121		AGATAGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGCGCTTACTGGCA	3180
Query	3181		CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAGATC	3240
Sbjct	3181		CCTGTGTGTATAACCATCTCGCTCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAGATC	3240
Query	3241		TGGCGTGGCTGTGGAACCACTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241		TGGCGTGGCTGTGGAACCACTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301		GGCGAGATACCGCCGCTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301		GGCGAGATACCGCCGCTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTCGTGG	3420
Sbjct	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTCGTGG	3420
Query	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481		TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481		TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541		AAACCTTCCGTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAACGGGCGGAA	3600
Sbjct	3541		AGACCTTCCGTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAACGGGCGGAA	3600
Query	3601		CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601		CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGAGCTATACCAATGTGGATCAAG	3660
Query	3661		ACCTTGTGGGTGGCCCGCTCCTCAAGGTTCCCGCTATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661		ACCTCGTGGGTGGCCCGCTCCTCAAGGTTCCCGCTATTGACACCCTGTACCTGCGGCT	3720
Query	3721		CCTCGGACCTTTACTTGGTACAGAGGCACGCCGATGTCATTCCCGTGCGCCGGCAGGTG	3780
Sbjct	3721		CCTCGGACCTTTACTTGGTACAGAGGCACGCCGATGTCATTCCCGTGCGCCGGCAGGTG	3780
Query	3781		ATAGCAGGGGTAGCCTGCTTTCGCCCGGCCCAATTCTACTTTGAAAGGCTTCCTGGGGG	3840
Sbjct	3781		ATAGCAGGGGTAGCCTGCTTTCGCCCGGCCCAATTCTACTTTGAAAGGCTTCCTGGGGG	3840
Query	3841		GTCCGCTGTTGTGCCCCGCGGACACGCCGTGGGCCTATTACGGGCCCGGTGTGCACCC	3900
Sbjct	3841		GTCCGCTGTTGTGCCCCGCGGACACGCCGTGGGCCTATTACGGGCCCGGTGTGCACCC	3900
Query	3901		GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901		GTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961		CCCCGGTGTTACAGGACAACTCCTCTCCACCAGCAGTGCCCAAGCTTCCAGGTGGCCC	4020

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Sbjct 3961 |CCCCGGTGTTCACGGCAACTCCTCTCCACCAGCAGTGCCTCCAGAGCTTCACAGTGGCCC| 4020
Query 4021 |ACCTGCATGCTCCACCACGGCAGCGGTAAAGAGCACCAAGGTCCTCCGGTCGCTACGAGCCC| 4080
Sbjct 4021 |ACCTGCATGCTCCACCACGGCAGCGGTAAAGAGCACCAAGGTCCTCCGGTCGCTACGAGCCA| 4080
Query 4081 |AGGGGTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT| 4140
Sbjct 4081 |AGGGGTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTT| 4140
Query 4141 |ACATGTCCAAGGCCATGCGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA| 4200
Sbjct 4141 |ACATGTCCAAGGCCATGCGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA| 4200
Query 4201 |CTGGCAGCCCATACGTAAGTACTCCACCTACGGCAAGTTCCTTGCCAGCGCGGTGCTCAG| 4260
Sbjct 4201 |CTGGCAGCCCATACGTAAGTACTCCACCTACGGCAAGTTCCTTGCCAGCGCGGTGCTCAG| 4260
Query 4261 |GAGGTGCTTAATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT| 4320
Sbjct 4261 |GAGGTGCTTAATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT| 4320
Query 4321 |TGGGCATCGGCACGTGCTTACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG| 4380
Sbjct 4321 |CGGGCATCGGCACGTGCTTACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG| 4380
Query 4381 |CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCCTCTAACATCGAGGAGTTGCTC| 4440
Sbjct 4381 |CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCCTCTAACATCGAGGAGTTGCTC| 4440
Query 4441 |TGTCACCAACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCTTCGAGGTGATCAAGG| 4500
Sbjct 4441 |TGTCACCAACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCTTCGAGGTGATCAAGG| 4500
Query 4501 |GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACAGGCTCGCCGCGGAAGC| 4560
Sbjct 4501 |GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACAGGCTCGCCGCGGAAGC| 4560
Query 4561 |TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGCTGTGATCC| 4620
Sbjct 4561 |TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGCTGTGATCC| 4620
Query 4621 |CGACCAGCGCGATGTTGTCGTGTCGACCGAAGTCTCTAAGTACTGGCTTTACCGGGC| 4680
Sbjct 4621 |CGACCAGCGCGATGTTGTCGTGTCGACCGAAGTCTCTAAGTACTGGCTTTACCGGGC| 4680
Query 4681 |ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTACGCTTGG| 4740
Sbjct 4681 |ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTACGCTTGG| 4740
Query 4741 |ACCCCTACCTTTACCATTTAGACAAACACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC| 4800
Sbjct 4741 |ACCCCTACCTTTACCATTTAGACAAACACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC| 4800
Query 4801 |GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGGAGC| 4860
Sbjct 4801 |GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGGAGC| 4860
Query 4861 |GCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT| 4920
Sbjct 4861 |GCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT| 4920
Query 4921 |GGTATGAGCTCAGGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCGGG| 4980
Sbjct 4921 |GGTATGAGCTCAGGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCGGG| 4980
Query 4981 |GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCACTC| 5040
Sbjct 4981 |GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCACTC| 5040
Query 5041 |ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAAGCTTTCCTTACCTGG| 5100
Sbjct 5041 |ATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAAGCTTTCCTTACCTGG| 5100
Query 5101 |TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGA| 5160
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Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGAGCCAGA	5160
Query	5161	TGTGGGAAGTGTTTGATCCGCCCTTAAACCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGCGGAAGTGTTTGATCCGCCCTTAAACCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGGCGCTGTTTCAGAAATGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGGCGCTGTTTCAGAAATGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTTCGGCCGAGCTTGGAGGTGTCACGAGCACTGGGTGCTCGTTGGCGCGCTCC	5340
Sbjct	5281	CATGCATGTTCGGCCGAGCTTGGAGGTGTCACGAGCACTGGGTGCTCGTTGGCGCGCTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGTCTTCAGCACTTACCGTACATGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGTCTTCAGCACTTACCGTACATGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCGCTGTTCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCGCTGTGTTCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCACAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCGTGGTAACCCGCCA	5700
Sbjct	5641	ATTTCACAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCGTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGTGCCTGACAGCCCACTAACCACATGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGTGCCTGACAGCCCACTAACCACATGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGCTGCCAGCTCGCCGCCCGCGTGC	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGCTGCCAGCTCGCCGCCCGCGTGC	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGC-CATCGGCAGCGTTGGACTGGGGAAG	5879
Sbjct	5821	CCGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGC-CAGCAGCGTTGGACTGGGGAAG	5879
Query	5880	GTCTCTGTGGACATTCTTGCAGGGTATGGCGGGGGCTGGCGGGAGCTCTTGTAGCATT	5939
Sbjct	5880	GTCTCTGTGGACATTCTTGCAGGGTATGGCGGGGGCTGGCGGGAGCTCTTGTGGCATT	5939
Query	5940	AAGATCATGAGCGGTGAGGTCCCTTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATC	5999
Sbjct	5940	AAGATCATGAGCGGTGAGGTCCCTTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATC	5999
Query	6000	CTCTCGCTGGAGCCCTTGTAGTCGGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTT	6059
Sbjct	6000	CTCTCACTTGGAGCCCTTGCAGTCGGTGGTCTTTCATCAATACTGCGCCGGCGTGT	6059
Query	6060	GGCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGG	6119
Sbjct	6060	GGCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGG	6119
Query	6120	AACCATGTTTCCCCACGCATACGTGCCGAGAGCATGCAGCGCCCGCTACTGCC	6179
Sbjct	6120	AACCATGTTTCCCCACGCATACGTGCCGAGAGCATGCAGCGCCCGCTACTGCC	6179
Query	6180	ATACTCAGCAGCTTACTGTAAACCAGCTCCTGAGGCAGTGCATCAGTGGATAAGTCG	6239
Sbjct	6180	ATACTCAGCAGCTTACTGTAAACCAGCTCCTGAGGCAGTGCATCAGTGGATAAGTCG	6239
Query	6240	GAGTGTACCACTCCAATGCTCCGGTTCCTGCTAAGGGACATCTGGGACTGGATATGCGAG	6299

Sbjct 6240 |GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG| 6299
Query 6300 |GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT| 6359
Sbjct 6300 |GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT| 6359
Query 6360 |CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGCTGGCGAGGAGACGGCATTATGCAC| 6419
Sbjct 6360 |CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGCTGGCGAGGAGACGGCATTATGCAC| 6419
Query 6420 |ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAAACGGGACGATGAGGATC| 6479
Sbjct 6420 |ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAAACGGGACGATGAGGATC| 6479
Query 6480 |GTCGGTCTTAGCACTGACAGGAACATGTGGAGTGGGACGTTCCCATTAACGCCTACACC| 6539
Sbjct 6480 |GTCGGTCTTAGCACTGACAGGAACATGTGGAGTGGGACGTTCTTCATTAATGCCTACACC| 6539
Query 6540 |ACGGGCCCTGTACTCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCT| 6599
Sbjct 6540 |ACGGGCCCTGTACTCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCT| 6599
Query 6600 |GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACT| 6659
Sbjct 6600 |GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGCATGACT| 6659
Query 6660 |ACTGACAATCTTAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGAC| 6719
Sbjct 6660 |ACTGACAATCTCAAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGAC| 6719
Query 6720 |GGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGTCTGCGGGAGGAGGTATCA| 6779
Sbjct 6720 |GGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGTCTGCGGGAGGAGGTATCA| 6779
Query 6780 |TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTAACCTTGGGAGCCCGAACCG| 6839
Sbjct 6780 |TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTAACCTTGGGAGCCCGAACCG| 6839
Query 6840 |GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGGCC| 6899
Sbjct 6840 |GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGGCC| 6899
Query 6900 |GGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGCCCAGCTCCTCGGCTAGCCAGCTG| 6959
Sbjct 6900 |GGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGCCCAGCTCCTCGGCTAGCCAGCTG| 6959
Query 6960 |TCCGCTCCATCTCTCAAGGCAACTTGCAACGCCAACCATGACTCCCTGACGCCGAGCTC| 7019
Sbjct 6960 |TCCGCTCCATCTCTCAAGGCAACTTGCAACGCCAACCATGACTCCCTGACGCCGAGCTC| 7019
Query 7020 |ATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGCGGCAACATCACCAGGGTTGAGTCA| 7079
Sbjct 7020 |ATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGCGGCAACATCACCAGGGTTGAGTCA| 7079
Query 7080 |GAGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG| 7139
Sbjct 7080 |GAGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG| 7139
Query 7140 |GAGGCTCCGTACTCGAGAAATTCTGCGGAAGTCTCGGAGATTTCGCCCGGGCCCTGCC| 7199
Sbjct 7140 |GAGGCTCCGTACCCCGAGAAATTCTGCGGAAGTCTCGGAGATTTCGCCCGGCCCTGCC| 7199
Query 7200 |GTCGGGGCGGGCGGACTACAACCCCGCTAGTAGAGACGTGGA AAAAGCCTGACTAC| 7259
Sbjct 7200 |GTCGGGGCGGGCGGACTACAACCCCGCTAGTAGAGACGTGGA AAAAGCCTGACTAC| 7259
Query 7260 |GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCTGTGCTCCG| 7319
Sbjct 7260 |GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCTGTGCTCCG| 7319
Query 7320 |CCTCGGAAAAGCGTACGGTGGTCTCACC GAATCAACCTATCTACTGCCTTGGCCGAG| 7379
Sbjct 7320 |CCTCGGAAAAGCGTACGGTGGTCTCACC GAATCAACCTATCTACTGCCTTGGCCGAG| 7379
Query 7380 |CTTGCCACCAAAAGTTTGGGAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACA| 7439

Sbjct	7380		CTTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCACAATACGACA	7439
Query	7440		ACATCCTCTGAGCCCGCCCTTCTGGCTG cccccc GACTCCGACGTTGAGTCCTATTCT	7499
Sbjct	7440		ACATCCTCTGAGCCCGCCCTTCTGGCTGCCCGCCGACTCCGACGTTGAGTCCTATTCT	7499
Query	7500		TCCATG ccccccc TGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGGTCG	7559
Sbjct	7500		TCCATGCCCGCCCTGAGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGGTCG	7559
Query	7560		ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTCTATTCTCTGG	7619
Sbjct	7560		ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTCTATTCTCTGG	7619
Query	7620		ACAGGCGCACTGTCACCCCGTGGCTGCGGGAAGAACAAA AACT GCCCATCAACGCACTG	7679
Sbjct	7620		ACAGGCGCACTGTCACCCCGTGGCTGCGGAGGAACAAA AACT GCCCATCAACGCACTG	7679
Query	7680		AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTCACGCAGTGTCTGC	7739
Sbjct	7680		AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTCACGCAGTGTCTGC	7739
Query	7740		CAAAGGCAGAAGAAAGTACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAAGGAC	7799
Sbjct	7740		CAAAGGAAGAAAGAAAGTACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAAGGAC	7799
Query	7800		GTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAG	7859
Sbjct	7800		GTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAG	7859
Query	7860		GAAGCTTGCAAGCTGACGCGCCACATTGAGCCAAATCCAAGTTGGCTATGGGGCAAAA	7919
Sbjct	7860		GAAGCTTGCAAGCTGACGCGCCACATTGAGCCAAATCCAAGTTGGCTATGGGGCAAAA	7919
Query	7920		GACGTCGGTGGCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTT	7979
Sbjct	7920		GACGTCGGTGGCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTT	7979
Query	7980		CTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGC	8039
Sbjct	7980		CTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGC	8039
Query	8040		GTTGAGCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTCTCCCGACCTGGGC	8099
Sbjct	8040		GTTGAGCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTCTCCCGACCTGGGC	8099
Query	8100		GTGGCGGTGTGGCAGAAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTG	8159
Sbjct	8100		GTGGCGGTGTGGCAGAAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTG	8159
Query	8160		ATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTGTGCAA	8219
Sbjct	8160		ATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTGTGCAA	8219
Query	8220		CGGTGGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCC	8279
Sbjct	8220		CGGTGGAAGTCCAAGAAGACCCGATGGGGTCTCGTATGATACCCGCTGTTTTGACTCC	8279
Query	8280		ACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGAC	8339
Sbjct	8280		ACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGAC	8339
Query	8340		CCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT	8399
Sbjct	8340		CCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT	8399
Query	8400		ACCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCAGCGCGTACTGACA	8459
Sbjct	8400		ACTAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCAGCAGAGTACTGACA	8459
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Sbjct	8460		ACTAGCTGTGGTAACACCTCTCACTGTCTACATCAAGGCCGGGGCAGCCTGTCTGAGCCGCA	8519
Query	8520		GGGCTCCAGGACTGCACCATGCTCGTGTGGCGCAGCACTTAGTCGTTATCTGTGAAAGT	8579

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Sbjct 8520 GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT 8579
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Sbjct 8580 GCGGGGGTCCAGGAGGACGCGGCAGCCTTGAGAGCCTTACGCGAGGCTATGACACGGTAC 8639
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Sbjct 8640 TCCGCCCCCCCCGGGAGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGC 8699
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Query 9300 GCCCGGCCCGCGTGGTTCTGGTTTTTGCCCTACTCTGCTCGCTGCAGGGGTAGGCATCTAC 9359
Sbjct 9300 GCCCGGCCCGCGTGGTTCTGGTTTTTGCCCTACTCTGCTGCTGCAGGGGTAGGCATCTAC 9359
Query 9360 CTCTCCCCAACCGATGAAGGTTGGGGTAAACACTCC-GGCCCTTTAAGCCATTTCTCT 9416
Sbjct 9360 CTCTCCCCAACCGATGAAGATTGGGCTAACCACTCCAGGCCAAT-AGGCCATTCTCTCT 9416

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>gb|AR640519.1| Sequence 13 from patent US 6858590
Length=9416

Score = 1.688e+04 bits (9140), Expect = 0.0
Identities = 9326/9418 (99%), Gaps = 4/9418 (0%)
Strand=Plus/Plus

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Query 1 GCCAGCCCCCTGATGGGGGCGCACTCCACCATGAATCACTCCCCGTGTGAGGAACACTG 60
Sbjct 1 GCCAGCCCCCTGATGGGGGCGCACTCCACCATGAATCACTCCCCGTGTGAGGAACACTG 60
Query 61 TCTTCACGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTGACGCTCCAGGAC 120
Sbjct 61 TCTTCACGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTGACGCTCCAGGAC 120
Query 121 ccccc TCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180

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Sbjct 121 CCCCCCTCCGGGAGAGCCATAGTGGTCTCGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Query 181 GACGACCGGGTCCCTTTCTTGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC 240
Sbjct 181 GACGACCGGGTCCCTTTCTTGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC 240
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Sbjct 301 GTGCTTGCAGAGTGCCCGGGAGGTCTCGTAGACCGTGACCATTGAGCAGCAATCCTAAAC 360
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Sbjct 361 CTCAAAGAAAAACCAACGTAACACCAACCGTCGCGCCACAGGACGTCAAGTTCGCGGGTG 420
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Sbjct 421 GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC 480
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Sbjct 481 GCGGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGAGCTCAGCCTATCCCCA 540
Query 541 AGGCACGTGCGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCCCTATG 600
Sbjct 541 AGGCACGTGCGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCCCTATG 600
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Sbjct 601 GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCAGCT 660
Query 661 GGGGCCCCACAGACCCCCGGCTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCCTTA 720
Sbjct 661 GGGGCCCCACAGACCCCCGGCTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCCTTA 720
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Sbjct 721 CGTGGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTTTGGAGGG 780
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Sbjct 781 CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG 840
Query 841 GGAACCTTCTCGGTGTGCTCTTCTCTATCTCTCTTGGCCCTGCTCTTGGCTGACTG 900
Sbjct 841 GGAACCTTCTCGGTGTGCTCTTCTCTATCTCTCTTGGCCCTGCTCTTGGCTGACTG 900
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Query 961 GCCTTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGTG 1020
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Sbjct 1081 CCACAGGGACGCGCAACCTCCCAACGCAGCTTCGACGTCATATCGATCTGCTTGTGC 1140
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Query 1261 CTATCTATCCCGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAAGTGT 1320
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Sbjct	1261	CTATCTATCCGGCCATATAACGGGTCACTCGCATGGCATGGAATATGATGATGAAGCTGGT	1320
Query	1321	CCCCACGGCAGCGTGTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCATCATGGACA	1380
Sbjct	1321	CCCCACGGCAGCGTGTGGTGGTAGCTCAGCTGCTCCGAATCCCACAAGCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGCGCCACTTGGGGAGTCTTGGCGGGCATAAAGTATTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCTGGTAGTGTCTGCTATTTTGCCGGGCTGCAGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCTGGTAGTGTCTGCTATTTTGCCGGGCTGCAGCGGAAACCCACG	1500
Query	1501	TCACGGGGGAAATGCGGGCCGACCACGGCTGGGCTTGTGTGCTCCTTACACAGGGCG	1560
Sbjct	1501	TCACGGGGGAAATGCGGGCCGACCACGGCTGGGCTTGTGTGCTCCTTACACAGGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTATGACAGGGCTCTTCTATACACAAAT	1680
Sbjct	1621	TGAATGCAATGAAAGCCTTAACACCGGCTGGTATGACAGGGCTCTTCTATACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTTGAGAGGTTGGCCAGCTGCCGACGCCCTTACCGATTITGCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTTGAGAGGTTGGCCAGCTGCCGACGCCCTTACCGATTITGCC	1740
Query	1741	AGGGCTGGGGTCCCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCTTCCAAGACCTTGTGCATTGTGCCCGAAGAGCGTGTGTGCCCGGTAT	1860
Sbjct	1801	GGCACTACCTTCCAAGACCTTGTGCATTGTGCCCGAAGAGCGTGTGTGCCCGGTAT	1860
Query	1861	ATTGCTTACTCCGAGCCCGTGGTGGTGGGAACGACGACAGTGGGGCGCGCTTACT	1920
Sbjct	1861	ATTGCTTACTCCGAGCCCGTGGTGGTGGGAACGACGACAGTGGGGCGCGCTTACT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTTAAACAACACAGGCCACCGTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTTAAACAACACAGGCCACCGTGG	1980
Query	1981	GCAATTGGTTGCGTTGTACTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTGCGTTGTACTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTTCGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTTCGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAAACATCCGGAAGCCACATACTCTCGGTGGGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAAATATCCGGAAGCCACATACTCTCGGTGGGGCTCCGGTCCAGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTTCGAGCACAGGCTGGAAGCGGGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTTCGAGCACAGGCTGGAAGCGGGCTGCAACTGGA	2280
Query	2281	CGCGGGCGGAACGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCCGTTGCTCG	2340
Sbjct	2281	CGCGGGCGGAACGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCCGTTGCTCG	2340
Query	2341	TGTCACCAACACAGTGGCAGGCTTCTTCGTTGTTCTTACAGCACTGCCAGCCTTGTCCTCA	2400
Sbjct	2341	TGTCACCAACACAGTGGCAGGCTTCTTCGTTGTTCTTACAGCACTGCCAGCCTTGTCCTCA	2400
Query	2401	CCGGCTCTATCCACCTCCACCAGAACATTTGGGACGTGCACTACTTGTACGGGGTAGGGT	2460

Sbjct	2401		CCGGCCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
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Sbjct	2461		CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTGTTCTCCGTGTTCTCTTCTGCTTG	2520
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Sbjct	2521		CAGACGCGCGCGTCTGTTCTCTGCTTTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
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Sbjct	2581		CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCATGGTCTTGTGT	2640
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Sbjct	2641		CCTTCTCTGTTCTTCTGCTTTGCGTGGTAICTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
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Sbjct	2701		TCACGCCCTCTACGGGATGTGGCCTCTCCTCTGCTCCTGCTGGCGTTGCCCTACGCGGG	2760
Query	2761		CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGGGGTTAA	2820
Sbjct	2761		CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGGGGTTAA	2820
Query	2821		TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821		TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881		AGTATTTTCTGACGACAGTAGAAGCGCAACTGCACGTGTGGGTTCACCGTCC	2940
Sbjct	2881		AGTATTTTCTGACGACAGTAGAAGCGCAACTGCACGTGTGGGTTCACCGTCC	2940
Query	2941		ggggggggCGGAGTGCCGTCATCTTACTCATGTGTGTAGTACACCGACCGCTGGTATTG	3000
Sbjct	2941		GGGGGGGGCGGAGTGCCGTCATCTTACTCACGTGTGTAGTACACCGCGCTGGTATTG	3000
Query	3001		ACATACCAAACCTACTCCTTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3060
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Sbjct	3061		TTAAAGTCCCTACTTTCGTGCGCGTTCAAGGCGCTTCCCGAICTGCGCGCTAGCGCGGA	3120
Query	3121		AGATAGCCGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121		AGATAGCCGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181		CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAGATC	3240
Sbjct	3181		CCTGTGTGTATAACCATCTCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAGATC	3240
Query	3241		TGGCCGTGGCTGTGGAACCAAGTCGTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241		TGGCCGTGGCTGTGGAACCAAGTCGTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301		GGGCAGATACCGCCGCGTGGGTGACATCATCAACGGCTTGGCCGCTCTGCCCCGTAGGG	3360
Sbjct	3301		GGGCAGATACCGCCGCGTGGGTGACATCATCAACGGCTTGGCCGCTCTGCCCCGTAGGG	3360
Query	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGAGGTTGCTGG	3420
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Sbjct	3481		TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
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Sbjct 3541 | AGACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAACGGGGCCGGAA 3600
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Sbjct 3601 | CGAGGACCATCGCATCACCAAGGGTCTGTGTCATCCAGAGTATACCAATGTGGATCAAG 3660
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Sbjct 3661 | ACCTCGTGGGGTGGCCCGTCTCTCAAGGTTCCCGTCTATTGACACCTGACACTGCGGCT 3720
Query 3721 | CCTCGGACCTTTACCTGGTTCACGAGGCACGCCGATGTGTCATTCCTCGGTGCGCCGGCAGGTG 3780
Sbjct 3721 | CCTCGGACCTTTACCTGGTTCACGAGGCACGCCGATGTGTCATTCCTCGGTGCGCCGGCAGGTG 3780
Query 3781 | ATAGCAGGGGTAGCCTTTCGCCCCGGCCATTTCTCTATTGAAAGGCTCTCTCGGGG 3840
Sbjct 3781 | ATAGCAGGGGTAGCCTTTCGCCCCGGCCATTTCTCTATTGAAAGGCTCTCTCGGGG 3840
Query 3841 | GTCCGCTGTTGTGCCCGGGACACGCCGTGGGCCATTACAGGGCCGCGTGTGACACC 3900
Sbjct 3841 | GTCCGCTGTTGTGCCCGGGACACGCCGTGGGCCATTACAGGGCCGCGTGTGACACC 3900
Query 3901 | GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT 3960
Sbjct 3901 | GTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT 3960
Query 3961 | CCCCAGTGTTCACGGACAACCTCTCTCCACCAGCAGTCCCCAGAGCTTCCAGTGGCCC 4020
Sbjct 3961 | CCCCAGTGTTCACGGACAACCTCTCTCCACCAGCAGTCCCCAGAGCTTCCAGTGGCCC 4020
Query 4021 | ACCTGCATGCTCCACCGGCAGCGGTAAGAGACCAAGGTCCCGGCTGCGTACGACGCC 4080
Sbjct 4021 | ACCTGCATGCTCCACCGGCAGCGGTAAGAGACCAAGGTCCCGGCTGCGTACGACGCCA 4080
Query 4081 | AGGGTCACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCT 4140
Sbjct 4081 | AGGGTCACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCT 4140
Query 4141 | ACATGTCCAAGGCCATGGGGTGTATCCTAATATCAGGACCGGGGTGAGACAATTACCA 4200
Sbjct 4141 | ACATGTCCAAGGCCATGGGGTGTATCCTAATATCAGGACCGGGGTGAGACAATTACCA 4200
Query 4201 | CTGGCAGCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGTGCTCAG 4260
Sbjct 4201 | CTGGCAGCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGTGCTCAG 4260
Query 4261 | GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT 4320
Sbjct 4261 | GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT 4320
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Sbjct 4321 | CGGGCATCGGCATGTCTTACCAAGCAGAGACTGCGGGGGCAGAGCTGGTGTGCTCG 4380
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Query 4441 | TGTCCACCACCGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAG 4500
Sbjct 4441 | TGTCCACCACCGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAG 4500
Query 4501 | GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCACGAGCTCGCCGCGAAGC 4560
Sbjct 4501 | GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCACGAGCTCGCCGCGAAGC 4560
Query 4561 | TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGCTGTATCC 4620
Sbjct 4561 | TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGCTGTATCC 4620
Query 4621 | CGACCAGCGCGATGTTGTGCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGG 4680
Sbjct 4621 | CGACCAGCGCGATGTTGTGCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGG 4680
Query 4681 | ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACCTCAGACAGTCGATTTACGCTTG 4740

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Sbjct  4681  ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACCTCAGACAGTCGATTTTAGCCTTG  4740
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Sbjct  4741  ACCCTACCTTTTACCATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC  4800
Query  4801  GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGGAGC  4860
Sbjct  4801  GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGGAGC  4860
Query  4861  GCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT  4920
Sbjct  4861  GCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT  4920
Query  4921  GGATFAGACTCAGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG  4980
Sbjct  4921  GGATFAGACTCAGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG  4980
Query  4981  GGCTTCCCGTGTGCCAGGACCATCTTGAATTTGGGAGGGCGCTTTACGGGCTCACTC  5040
Sbjct  4981  GGCTTCCCGTGTGCCAGGACCATCTTGAATTTGGGAGGGCGCTTTACGGGCTCACTC  5040
Query  5041  ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAAGCTTCTTACCTGG  5100
Sbjct  5041  ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAAGCTTCTTACCTGG  5100
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Query  5221  GACTGGGCGCTGTTCAGAAATGAAGTACCCCTGACGCACCAATCACCAAATACATCATGA  5280
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Sbjct  5401  TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG  5460
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Query  5521  AGTTCAAGCAGAAGGCCCTCGGCCTCTGCAGACCGCGTCCCGCATCGAGAGGTTATCA  5580
Sbjct  5521  AGTTCAAGCAGAAGGCCCTCGGCCTCTGCAGACCGCGTCCCGCATCGAGAGGTTATCA  5580
Query  5581  CCCTGTGCTGCCAGACCAACTGGCAGAACTCGAGGCTCTTTGGGCGAAGCACATGTGGA  5640
Sbjct  5581  CCCTGTGCTGCCAGACCAACTGGCAGAACTCGAGGCTCTTTGGGCGAAGCACATGTGGA  5640
Query  5641  ATTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA  5700
Sbjct  5641  ATTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA  5700
Query  5701  TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC  5760
Sbjct  5701  TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC  5760
Query  5761  TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCCGGTGGCGCTA  5820
Sbjct  5761  TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCCGGTGGCGCTA  5820
Query  5821  CTGCGTTTGTGGGTGCTGGCCTAGCTGGCGCCGC-CATCGGCAGCGTTGGACTGGGAAG  5879
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Sbjct	5821	CCGCCTTTGTGGCGCTGGCTTAGCTGGCGCGCAC-TCGACAGCGTTGGACTGGGGAAG	5879
Query	5880	GTCTCGTGGACATTCTTGCAGGGTATGGCGGGGCGTGGCGGGAGCTCTTGTAGCAATC	5939
Sbjct	5880	GTCTCGTGGACATTCTTGCAGGCTATGGCGGGGCGTGGCGGGAGCTCTTGTGGCATT	5939
Query	5940	AAGATCATGAGCGGTGAGGTCCCTCCACGAGGAGCTGGTCAATCTGCTGCCCGCCATC	5999
Sbjct	5940	AAGATCATGAGCGGTGAGGTCCCTCCACGAGGAGCTGGTCAATCTGCTGCCCGCCATC	5999
Query	6000	CTCTCGCTGGAGCCCTTGTAGTCGGTGGTCTGCGCAGCAATACTGCGCCGCGCAGTT	6059
Sbjct	6000	CTCTCACTGGAGCCCTTGCAGTCGGTGGTCTTTCATCAATACTGCGCCGCGCTGT	6059
Query	6060	GGCCCGGGCGAGGGGCGAGTGAATGATGAACCGGCTAATAGCCTTCGCTCCCGGGG	6119
Sbjct	6060	GGCCCGGGCGAGGGGCGAGTGAATGATGAACCGGCTAATAGCCTTCGCTCCCGGGG	6119
Query	6120	AACCATGTTTCCCCACGCACTACGTGCGCGGAGAGCATGAGCCGCCCGGTCACTGCC	6179
Sbjct	6120	AACCATGTTTCCCCACACACTACGTGCGCGGAGAGCATGAGCCGCCCGGTCACTGCC	6179
Query	6180	ATACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Sbjct	6180	ATACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Query	6240	GAGTGTAACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Sbjct	6240	GAGTGTAACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Query	6300	GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6359
Sbjct	6300	GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6359
Query	6360	CCCTTTGTGTCTCGCCAGCGGGGTATAGGGGGTCTGGCGAGGAGACGGCATATGCAC	6419
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Query	6420	ACTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Sbjct	6420	ACTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Query	6480	GTCGGTCTAGGACCTGCAGGAACATGTGGAGTGGGAGCTTCCCATTAAACGCTACACC	6539
Sbjct	6480	GTCGGTCTAGGACCTGCAAGAACATGTGGAGTGGGAGCTTCTTCATTAAAGCTACACC	6539
Query	6540	ACGGGCCCCGTACTCCCCCTCTGCGCGGAACATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Sbjct	6540	ACGGGCCCCGTACTCCCCCTCTGCGCGGAACATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Query	6600	GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGATGACT	6659
Sbjct	6600	GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGATGACT	6659
Query	6660	ACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGAC	6719
Sbjct	6660	ACTGACAATCTCAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGAC	6719
Query	6720	GGGGTGCGCCTACACAGGTTTGCGCCCTTGAAGCCCTTGTCTGCGGGAGGAGGTATCA	6779
Sbjct	6720	GGGGTGCGCCTACATAGGTTTGCGCCCTTGAAGCCCTTGTCTGCGGGAGGAGGTATCA	6779
Query	6780	TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGCCCGAACCG	6839
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Query	6840	GACGTAGCCGTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGCC	6899
Sbjct	6840	GACGTAGCCGTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGCC	6899
Query	6900	GGGAGAAGGTTGGCGAGAGGCTACCCCTTCTATGGCCAGCTCCTCGGTAGCCAGCTG	6959
Sbjct	6900	GGGAGAAGGTTGGCGAGAGGCTACCCCTTCTATGGCCAGCTCCTCGGTAGCCAGCTG	6959
Query	6960	TCCGCTCCATCTCTCAAGGCACTTGACACGCCAACCATGACTCCCTGACGCGAGCTC	7019

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Sbjct 6960      |TCCGCTCCATCTCTCAAGGCAACTTGACCCGCCAACCATGACTCCCCTGACGCCGAGCTC| 7019
Query 7020      |ATAGAGGCTAACCTCCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCA| 7079
Sbjct 7020      |ATAGAGGCTAACCTCCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCA| 7079
Query 7080      |GAGAACAAGAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG| 7139
Sbjct 7080      |GAGAACAAGAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG| 7139
Query 7140      |GAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCC| 7199
Sbjct 7140      |GAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCGCCCGAGCCCTGCCCC| 7199
Query 7200      |GCTCGGGCGGGCGGCGGACTACAACCCCGCTAGTAGAGACGTGGAAGGCTGACTAC| 7259
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Query 7260      |GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCCTCCG| 7319
Sbjct 7260      |GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCCTCCG| 7319
Query 7320      |CCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCATATCTACTGCCTTGGCCGAG| 7379
Sbjct 7320      |CCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCATCTACTACTGCCTTGGCCGAG| 7379
Query 7380      |CTTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGCAATACGACA| 7439
Sbjct 7380      |CTTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGCAATACGACA| 7439
Query 7440      |ACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCTCTATTCT| 7499
Sbjct 7440      |ACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCTCTATTCT| 7499
Query 7500      |TCCATGCCCCCGCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGAGGGGTATGGTGC| 7559
Sbjct 7500      |TCCATGCCCCCGCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGAGGGGTATGGTGC| 7559
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Query 7620      |ACAGGCGCAGCTCTGACCCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCAGTGC| 7679
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Query 7680      |AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCCTTCACGCAGTGTCTGCG| 7739
Sbjct 7680      |AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCCTTCACGCAGTGTCTGCG| 7739
Query 7740      |CAAAGGCAGAAGAAAGTACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAAGGAC| 7799
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Query 7800      |GTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAG| 7859
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Query 7860      |GAAGCTTGACGCTGACGCCCCCATTGAGCCAAATCCAAGTTTGGCTATGGGGCAAAA| 7919
Sbjct 7860      |GAAGCTTGACGCTGACGCCCCCATTGAGCCAAATCCAAGTTTGGCTATGGGGCAAAA| 7919
Query 7920      |GACGTCGCTGTCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTTGGGAAAGACCTT| 7979
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Query 8040      |GTTACGCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTCCCCGACCTGGGC| 8099
Sbjct 8040      |GTTACGCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTCCCCGACCTGGGC| 8099
Query 8100      |GTGCGCTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTG| 8159

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Query	8220	GCGTGGAAATCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCC	8279
Sbjct	8220	GCGTGGAAATCCAAGAAGACCCCGATGGGGCTCTCGTATGATACCCGCTGTTTTGACTCC	8279
Query	8280	ACAGTCACTGAGAGCGACATCCGTCAGGAGGAGGCAATTTACCAATGTTGTGACCTGGAC	8339
Sbjct	8280	ACAGTCACTGAGAGCGACATCCGTCAGGAGGAGGCAATTTACCAATGTTGTGACCTGGAC	8339
Query	8340	CCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT	8399
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Query	8400	ACCAATTCAAGGGGGGAAAACTGCGGCTACCGAGGTGCCGCGGAGCGGCGTACTGACA	8459
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Sbjct	8460	ACTAGCTGTGGTAACACCCCTACTCGCTACATCAAGGCCCGGGGACGCTGTCGAGCCGCA	8519
Query	8520	GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT	8579
Sbjct	8520	GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT	8579
Query	8580	GCGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTAC	8639
Sbjct	8580	GCGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTAC	8639
Query	8640	TCCGCCCCCCCCGGGAGCCCCCAACCAAGATACGACTTGGAGCTTATAACATCATGC	8699
Sbjct	8640	TCCGCCCCCCCCGGGAGCCCCCAACCAAGATACGACTTGGAGCTTATAACATCATGC	8699
Query	8700	TCTTCAAAGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGTCTACTACTTTACCCGT	8759
Sbjct	8700	TCTTCAAAGTGTGAGTCGCCACGACGGCGCTGGAAGAGGGTCTACTACTTTACCCGT	8759
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Sbjct	8760	GACCCACAACCCCCCTCGCGAGAGCGCGGTGGGAGACAGAAGACACACTCCAGTCAAT	8819
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Query	9000	CATGGCCTCAGCGCAATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCC	9059
Sbjct	9000	CATGGCCTCAGCGCAATTTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCC	9059
Query	9060	GCATGCTCAGAAAACTTGGGGTCCCGCCCTTGCAGAGCTGGAGACACGGGCCGAGAC	9119
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Query	9120	GTCGCGCTAGGCTCTGTGTCAGAGGAGGACGGGCTGCCATATGTGGCAAGTACCTCTTC	9179
Sbjct	9120	GTCGCGCTAGGCTCTGTGTCAGAGGAGGACGGGCTGCCATATGTGGCAAGTACCTCTTC	9179
Query	9180	AACGTGGGACGTAAAGAACAAAGCTCAAACCTCACTCAAATAGCGGCCGCTGGCCGGCTGGAC	9239
Sbjct	9180	AACGTGGGACGTAAAGAACAAAGCTCAAACCTCACTCCGATAAGCGGCCGCTGGCCGGCTGGAC	9239
Query	9240	TTGTCCGGTTGGTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGCTCAT	9299

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Query   9360  |||||
          CTCTCTCCCAACCGATGAAGGTTGGGGTAAACACTCC--GGCCTCTTAAGCCATTTCCT 9416
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Length=9416

Score = 1.688e+04 bits (9140), Expect = 0.0
Identities = 9326/9418 (99%), Gaps = 4/9418 (0%)
Strand=Plus/Plus

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Sbjct   1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCCTGIGAGGAAGTACTG 60

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Sbjct   61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGCAGCCTCCAGGAC 120

Query   121     ccccccTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Sbjct   121     CCCCCCTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180

Query   181     GACGACCGGGTCTCTTTCTTGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC 240
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Query   301     GTGCTTGCAGAGTGCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC 360
Sbjct   301     GTGCTTGCAGAGTGCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC 360

Query   361     CTCAAAGAAAAACAAACGTAAACCAACCGTCGCGCCACAGGACGTCAAGTTCCTGGGTG 420
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Query   421     GCGGTACAGTCGTTGGTGGAGTTTACTTGTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC 480
Sbjct   421     GCGGTACAGTCGTTGGTGGAGTTTACTTGTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC 480

Query   481     GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGAGCTAGCCTATCCCCA 540
Sbjct   481     GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGAGCTAGCCTATCCCCA 540

Query   541     AGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTTGGCCCCCTATG 600
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Query   601     GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGCT 660
Sbjct   601     GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGCT 660

Query   661     GGGGCCCCACAGACCCCCGGCTAGGTGCGCAATTGGGTAAAGTCATCGATAACCTTA 720
Sbjct   661     GGGGCCCCACAGACCCCCGGCTAGGTGCGCAATTGGGTAAAGTCATCGATAACCTTA 720

Query   721     CGTGCGGCTTCGCGGACCTCATGGGGTACATACCGCTCGTGGCGGCCCTCTTGGAGGG 780
Sbjct   721     CGTGCGGCTTCGCGGACCTCATGGGGTACATACCGCTCGTGGCGGCCCTCTTGGAGGG 780

Query   781     CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCTGAACATGCAACAG 840
Sbjct   781     CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCTGAACATGCAACAG 840

Query   841     GGAACCTTCCTGGTTGCTCTTCTCTATCTTCTCTTGGCCCTGCTCTCTTGCTGACTG 900

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Sbjct 901      |||
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Query 961      |||
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Sbjct 1081     |||
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Query 1861     |||
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Query 1921     |||
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Query	2281		2340
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Query	2581		2640
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Query	2641		2700
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Sbjct	3241	TGGCCGTGGCTGTGGAACCAAGTCGCTTCTCCGGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTAGCCCCAGCAGACGAGAGGCCCTCTAGGTTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTAGCCCCAGCAGACGAGAGGCCCTCTAGGTTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACAAGTGGAGGGTGAGGTCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACAAGTGGAGGGTGAGGTCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTCATCAATGGGGTATGCTGGACTGCTACCAAGGGGCCGGAA	3600
Sbjct	3541	AGACCTTCCTGGCAACGTCATCAATGGGGTATGCTGGACTGCTACCAAGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCAAGSGTCTCTGTATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCAAGSGTCTCTGTATCCAGATGTATACCAATGTGGATCAAG	3660
Query	3661	ACCTCTGGGCTGGCCCGCTCTCAAGGTTCCCGCTATGACCACTGTACCTGGCGCT	3720
Sbjct	3661	ACCTCTGGGCTGGCCCGCTCTCAAGGTTCCCGCTATGACCACTGTACCTGGCGCT	3720
Query	3721	CCTCGACCTTTACTTGGTCACGAGGCAACGCCGATGTCAATCCCGTGCAGCGGCGAGGTG	3780
Sbjct	3721	CCTCGACCTTTACTTGGTCACGAGGCAACGCCGATGTCAATCCCGTGCAGCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGGCTGCTTTTCGCCCGGGCCATTTCCTACTTGAAAGGCTCTCTGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGGCTGCTTTTCGCCCGGGCCATTTCCTACTTGAAAGGCTCTCTGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCGCGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCGCGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGCTATAAGCGGTGGACTTTATCCCTGTGGAGAACTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGCTATAAGCGGTGGACTTTATCCCTGTGGAGAACTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGTGTTACCGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCC	4020
Sbjct	3961	CCCCGTGTTACCGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAAGACACCAAGGTCGCCGTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAAGACACCAAGGTCGCCGTGCGTACGCAGCCA	4080
Query	4081	AGGGCTACAAGGTGTGGTGCTCAACCCCTCTGTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTGGTGCTCAACCCCTCTGTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCATGGGTTGATCTTAATATCAGAACCGGGTGAGAACAAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCATGGGTTGATCTTAATATCAGAACCGGGTGAGAACAAATTACCA	4200
Query	4201	CTGGCAGCCCATCAGTACTCCACTACGGCAAGTTCCTTGGCAGCGGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCATCAGTACTCCACTACGGCAAGTTCCTTGGCAGCGGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAAATTTGTGACGAGTGCCATCCACGGATGCCACATCCATCT	4320

Sbjct	4261		GAGGTGCTTATGACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321		TGGGCATCGGCATGTCTTGACCAAGCAGAGACTGCGGGGGCAGAGACTGGTTGTGCTCG	4380
Sbjct	4321		CGGGCATCGGCATGTCTTGACCAAGCAGAGACTGCGGGGGCAGAGACTGGTTGTGCTCG	4380
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Sbjct	4381		CCACTGTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGTTGTCT	4440
Query	4441		TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441		TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501		GGGGAAGACATCTCATCTTCTGCGCACTCAAGAAGAAGTGCAGCAGCTCGCCGCGAAGC	4560
Sbjct	4501		GGGGAAGACATCTCATCTTCTGCGCACTCAAGAAGAAGTGCAGCAGCTCGCCGCGAAGC	4560
Query	4561		TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGCTGTCATCC	4620
Sbjct	4561		TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGCTGTCATCC	4620
Query	4621		CGACCAGCGCGATGTTGTGCTCGTGTGACCGATGCTCTCATGACTGGCTTTACCGGG	4680
Sbjct	4621		CGACCAGCGCGATGTTGTGCTCGTGTGACCGATGCTCTCATGACTGGCTTTACCGGG	4680
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Sbjct	4681		ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTG	4740
Query	4741		ACCTTACCTTTTACCATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741		ACCTTACCTTTTACCATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801		GCCGGGGCAGGACTTGGCAGGGGGGAGCCAGGCATCTATAGATTGTGGCACCGGGGGAGC	4860
Sbjct	4801		GCCGGGGCAGGACTTGGCAGGGGGGAGCCAGGCATCTATAGATTGTGGCACCGGGGGAGC	4860
Query	4861		GCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861		GCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921		GGTATGAGCTCAGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCG	4980
Sbjct	4921		GGTATGAGCTCAGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCG	4980
Query	4981		GGCTTCCCGGTGTCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCACTC	5040
Sbjct	4981		GGCTTCCCGGTGTCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCACTC	5040
Query	5041		ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041		ATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101		TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101		TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160
Query	5161		TGTGGAAGTGTTGATCCGCCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161		TGTGGAAGTGTTGATCCGCCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
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Sbjct	5221		GACTGGGCGCTGTTTACAGAAATGAAGTACACCTGACGCACCAATCACCACAAATACATATGA	5280
Query	5281		CATGCATGTGCGGCCACCTGGAGGTGCTCACGAGCACTGGGTGCTCGTTGGCGGGCTCC	5340
Sbjct	5281		CATGCATGTGCGGCCACCTGGAGGTGCTCACGAGCACTGGGTGCTCGTTGGCGGGCTCC	5340
Query	5341		TGGCTGCTTGCGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCTATAGTGGGCAGGATCG	5400
Sbjct	5341		TGGCTGCTTGCGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCTATAGTGGGCAGGATCG	5400
Query	5401		TCTTGTCCGGGAAGCCGGAATTATACCTGACAGGGAGGTTCTCTACAGGAGTTCGATG	5460


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Sbjct 5401 TCTTGTCCGGGAAGCGCGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG 5460
Query 5461 AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC 5520
Sbjct 5461 AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC 5520
Query 5521 AGTTCAAGCAGAAGGCCCTCGGCCTCTCGACACCGCGTCCCGCCATCGAGAGGTTATCA 5580
Sbjct 5521 AGTTCAAGCAGAAGGCCCTCGGCCTCTCGACACCGCGTCCCGCCATCGAGAGGTTATCA 5580
Query 5581 CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGA 5640
Sbjct 5581 CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGA 5640
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Sbjct 5641 ATTTTCATGTTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCGCCA 5700
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Sbjct 5701 TTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCACTGGCCAAACCC 5760
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Sbjct 5880 GTCTCTGTGGACATTCTTGCAGGATATGGCGGGGCGTGGCGGGAGCTCTTGTGACATTC 5939
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Sbjct 5940 AAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTTGTCAATCTGCTGCCCGCCATC 5999
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Sbjct 6000 CTCTCACCCTGGAGCCCTTGCAGTCGGTGTGGTCTTGTGATCAATACTGCGCCGGCGTGT 6059
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Sbjct 6060 GGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCTCCCGGGG 6119
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Sbjct 6300 GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT 6359
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Sbjct 6360 CCTTTGTGTCTTCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATATGCGAC 6419
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Sbjct 6420 ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC 6479
Query 6480 GTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCACTTAACCGCTACACC 6539
Sbjct 6480 GTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCTTCACTTAATGCTACACC 6539
Query 6540 ACGGGCCCTGTACTCCCTTCCTGCGCGCAACTATAAGTTCGCGCTGTGAGGGGTGTCT 6599
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Sbjct 6540 |ACGGGCCCCGTACTCCCTTCCTGCGCCGAATAAGTTCGCGCTGTGGAGGGTGTCT| 6599
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Sbjct 6600 |CGAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGCATGACT| 6659
Query 6660 |ACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGAC| 6719
Sbjct 6660 |ACTGACAATCTCAAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGAC| 6719
Query 6720 |GGGGTGCCTACACAGGTTTGGGCCCTTTCGAAGCCCTTGCTGCGGGAGGAGGTATCA| 6779
Sbjct 6720 |GGGGTGCCTACATAGGTTTGGGCCCTTTCGAAGCCCTTGCTGCGGGAGGAGGTATCA| 6779
Query 6780 |TTCAGATAGGACTCCACGAGTACCCGGTGGGGTGC AATTACCTTTCGAGCCCGAACCG| 6839
Sbjct 6780 |TTCAGATAGGACTCCACGAGTACCCGGTGGGGTGC AATTACCTTTCGAGCCCGAACCG| 6839
Query 6840 |GACGTAGCCGTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCC| 6899
Sbjct 6840 |GACGTAGCCGTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCC| 6899
Query 6900 |GGGAGAAGTTGGCGAGAGGGTACCCCTTCTATGCGCAGCTCTCGGTAGCCAGCTG| 6959
Sbjct 6900 |GGGAGAAGTTGGCGAGAGGGTACCCCTTCTATGCGCAGCTCTCGGTAGCCAGCTG| 6959
Query 6960 |TCCGCTCCATCTCTCAAGGCAACTTGACCGCCAAACCATGACTCCCTGACCGCGAGCTC| 7019
Sbjct 6960 |TCCGCTCCATCTCTCAAGGCAACTTGACCGCCAAACCATGACTCCCTGACCGCGAGCTC| 7019
Query 7020 |ATAGAGGCTAACCCTCTGTGGAGCAGGAGATGGGCGGCAACATACACAGGGTTGAGTCA| 7079
Sbjct 7020 |ATAGAGGCTAACCCTCTGTGGAGCAGGAGATGGGCGGCAACATACACAGGGTTGAGTCA| 7079
Query 7080 |GAGAACAAGTGTGTATCTGGACTCCTTCGATCCGCTTGTGGCAGAGAGGATGAGCGG| 7139
Sbjct 7080 |GAGAACAAGTGTGTATCTGGACTCCTTCGATCCGCTTGTGGCAGAGAGGATGAGCGG| 7139
Query 7140 |GAGGTCTCCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCC| 7199
Sbjct 7140 |GAGGTCTCCGTACCCGCGAGAAATTCGCGGAAGTCTCGGAGATTGCGCCGAGCCCTGCC| 7199
Query 7200 |GTCTGGGCGCGGCCGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTAC| 7259
Sbjct 7200 |GTCTGGGCGCGGCCGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTAC| 7259
Query 7260 |GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCTGTGCTCCG| 7319
Sbjct 7260 |GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCTGTGCTCCG| 7319
Query 7320 |CCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAG| 7379
Sbjct 7320 |CCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTACTACTGCCTTGGCCGAG| 7379
Query 7380 |CTTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGCAATACGACA| 7439
Sbjct 7380 |CTTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGCAATACGACA| 7439
Query 7440 |ACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCGACCTCCGAGCTTGTGCTTATTCT| 7499
Sbjct 7440 |ACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCGACCTCCGAGCTTGTGCTTATTCT| 7499
Query 7500 |TCCATGCCCCCTTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAATGGTGC| 7559
Sbjct 7500 |TCCATGCCCCCTTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAATGGTGC| 7559
Query 7560 |ACGGTCAGTAGTGGGCGGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCG| 7619
Sbjct 7560 |ACGGTCAGTAGTGGGCGGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCG| 7619
Query 7620 |ACAGGCGCACTCTCACCCCGTGCCTGCGGAAGAAACAAAACTGCCCATCAACGCACGT| 7679
Sbjct 7620 |ACAGGCGCACTCTCACCCCGTGCCTGCGGAAGAAACAAAACTGCCCATCAACGCACGT| 7679
Query 7680 |AGCAACTCGTGTACGCCATCAAAATCTGGTGTATTCCACCACCTTACCGCAGTGCTTGC| 7739

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Sbjct 7680      |||
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Sbjct 7740      |||
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Query 7800      |||
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Sbjct 7800      |||
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Sbjct 7860      |||
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Sbjct 7920      |||
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Sbjct 8220      |||
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Sbjct 8760      |||
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Query 8820      |||
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Sbjct  8880  |ACCCACTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTCAACTGCGAG| 8939
Query   8940  |ATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTC| 8999
Sbjct  8940  |ATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTC| 8999
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Sbjct  9000  |CATGGCCTCAGCGCATTTCCTACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCC| 9059
Query   9060  |GCATGGCCTCAGAAAACCTTGGGGTCCCGCCCTTGGGAGCTTGGAGACACCGGGCCCGAGC| 9119
Sbjct  9060  |GCATGGCCTCAGAAAACCTTGGGGTCCCGCCCTTGGGAGCTTGGAGACACCGGGCCCGAGC| 9119
Query   9120  |GTCCGCGCTAGGCTTCTGTCCAGAGGAGGCGAGGCTGCCATATGTGGCAAGTACCTCTTC| 9179
Sbjct  9120  |GTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAAGGCTGCCATATGTGGCAAGTACCTCTTC| 9179
Query   9180  |AACTGGGCGAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCGGCTGGAC| 9239
Sbjct  9180  |AACTGGGCGAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCGGCTGGAC| 9239
Query   9240  |TTGTCGGGTTGGTTTACGGCTGGCTACAGCGGGGAGACATTATACAGCGTGTCTCAT| 9299
Sbjct  9240  |TTGTCGGGTTGGTTTACGGCTGGCTACAGCGGGGAGACATTATACAGCGTGTCTCAT| 9299
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Sbjct  9300  |GCCCGGCGCGCTGGTTCTGGTTTTCGCTTACTCTGCTGCTGCAGGGGTAGGCATCTAC| 9359
Query   9360  |CTCTCCCCAACCGATGAAGGTTGGGGTAAACACTCC-GGCCCTCTTAAGCCATTTCCT| 9416
Sbjct  9360  |CTCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCAGGCCAAT-AGGCCATTTCCT| 9416

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Length=9416

Score = 1.688e+04 bits (9140), Expect = 0.0
Identities = 9326/9418 (99%), Gaps = 4/9418 (0%)
Strand=Plus/Plus

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Query   61      |TCTTCACGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGACGCTCCAGGA| 120
Sbjct   61      |TCTTCACGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGACGCTCCAGGA| 120
Query   121     |CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG| 180
Sbjct   121     |CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG| 180
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Query   241     |GCAAGACTGTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTGTGGTACTGCTGATAGG| 300
Sbjct   241     |GCAAGACTGTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTGTGGTACTGCTGATAGG| 300
Query   301     |GTGCTTGCAGAGTCCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC| 360
Sbjct   301     |GTGCTTGCAGAGTCCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC| 360
Query   361     |CTCAAGAAAAACCAACGTAACACCAACCGTCGCCCCACAGGACGTCAAGTTCCTGGGTG| 420
Sbjct   361     |CTCAAGAAAAACCAACGTAACACCAACCGTCGCCCCACAGGACGTCAAGTTCCTGGGTG| 420
Query   421     |CGGGTCAGATCGTTGGTGGAGTTTACTTGTGTCCGCCGACAGGGGCCCTAGATTGGGTGTG| 480

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Sbjct	421	CGCGTCAGATCGTTGGTGGAGTTTACTTGTGTGCCCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	CGCGCAGCAGGAAGACTTCCGAGCGGTGCGAACTCGAGGTAGACGTACGCCTATCCCCA	540
Sbjct	481	CGCGCAGCAGGAAGACTTCCGAGCGGTGCGAACTCGAGGTAGACGTACGCCTATCCCCA	540
Query	541	AGGCACGTGCGGCCGAGGGCAGGACTGGGCTCAGCCCGGTACCCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTGCGGCCGAGGGCAGGACTGGGCTCAGCCCGGTACCCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTGCGGCAATTGGGTAAAGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTGCGGCAATTGGGTAAAGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGCGCTCCGGGTTCGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGCGCTCCGGGTTCGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACTTCTCTGGTTGTCTTTTCTCTATCTTCCTTCGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACTTCTCTGGTTGTCTTTTCTCTATCTTCCTTCGGCCCTGCTCTCTTGCCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGCGCGGCATGCCATCTTGACATCCGGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGCGCGGCATGCCATCTTGACATCCGGGGGTGTG	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAAACGCTCGAGGTGTTGGGTGGCGGTGACCCCCAGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAAACGCTCGAGGTGTTGGGTGGCGGTGACCCCCAGGTGG	1080
Query	1081	CCACCAGGACGGGAAACTCCCCACAACGAGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Sbjct	1081	CCACCAGGACGGGAAACTCCCCACAACGAGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Query	1141	GGAGCGCACCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTCTTG	1200
Sbjct	1141	GGAGCGCACCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTCTTG	1200
Query	1201	TGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGGCATATAACGGGTTCATCGCATGGCATGGGATATGATGATGAACGTGT	1320
Sbjct	1261	CTATCTATCCCGGGCATATAACGGGTTCATCGCATGGCATGGGATATGATGATGAACGTGT	1320
Query	1321	CCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGGCATCATGGACA	1380
Sbjct	1321	CCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGGCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCCTCATGTTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCCTCATGTTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCTGGTAGTGCTGCTGCTATTTCGCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCTGGTAGTGCTGCTGCTATTTCGCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGAAATGCCGGCCGACACCGCTGGGCTTGTGGTCTCCTTACACAGGCG	1560
Sbjct	1501	TCACCGGGGAAATGCCGGCCGACACCGCTGGGCTTGTGGTCTCCTTACACAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACGATCAACACCAACGCGAGTTGGCATCATCAATAGCAGCGCCT	1620

Sbjct	1561	CCAAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGGCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAT	1680
Sbjct	1621	TGAATGCAATGAAAGCCTTAAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGACAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTTGAGAGGTTGGCCAGCTGCCGACGCCCTTACCGATTTTGCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTTGAGAGGTTGGCCAGCTGCCGACGCCCTTACCGATTTTGCC	1740
Query	1741	AGGGCTGGGGTCCCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCGGTAT	1860
Sbjct	1801	GGCACTACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCGGTAT	1860
Query	1861	ATTGCTTCACTCCAGCCCGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCAGCCCGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCTTAAACAACACGAGGCCACCGTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCTTAAACAACACGAGGCCACCGTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTGATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTGATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACTCCGGAAGCCACATACTCTCGGTGGCGCTCGGTCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACTCCGGAAGCCACATACTCTCGGTGGCGCTCGGTCCTGGATTACACCCAGGT	2160
Query	2161	GCATGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCAGAGGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCAGAGGCTGGAAGCGGCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCGTTGCTGC	2340
Query	2341	TGTCACCACACAGTGGCAGGTCCTTCGGTGTCTTTACGACCCCTGCCAGCCTTGTC	2400
Sbjct	2341	TGTCACCACACAGTGGCAGGTCCTTCGGTGTCTTTACGACCCCTGCCAGCCTTGTC	2400
Query	2401	CCGGCTCATCCACCTCCACCAGAACATGTGGACGTGCGACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCTCATCCACCTCCACCAGAACATGTGGACGTGCGACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCCTGGGCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCCCTTCGTTG	2520
Sbjct	2461	CAAGCATCGCGTCCCTGGGCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCCCTTCGTTG	2520
Query	2521	CAGACGCGCGGCTGTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGCGG	2580
Sbjct	2521	CAGACGCGCGGCTGTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATCAATGACATCTCCGCGGGGACGAGCTCTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATCAATGACATCTCCGCGGGGACGAGCTCTGTGT	2640
Query	2641	CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTTACGGGATGTGGCTCTCTCTCTGCTCTGCTGGCCTTGCCTCAGCGGG	2760

Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCTCTCTCTCTGCTCTCTGCGTGGCGTGGCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGCGCTGTCTTCTGTCCGGGTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGCGCTGTCTTCTGTCCGGGTAA	2820
Query	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACACGTCC	2940
Query	2941	ACATCACCAACTACTCCTGGCCATCTTCGACCCCTTTGGATTCTCAAGCCAGTTTGC	3000
Sbjct	2941	ACATCACCAACTACTCCTGGCCATCTTCGACCCCTTTGGATTCTCAAGCCAGTTTGC	3000
Query	3001	ACATCACCAACTACTCCTGGCCATCTTCGACCCCTTTGGATTCTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAACTACTCCTGGCCATCTTCGACCCCTTTGGATTCTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCTGTCGCGCTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCTGTCGCGCTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCAATTACGTGCAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCAATTACGTGCAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAAGGCTGCGAGATC	3240
Sbjct	3181	CCTGTGTGTATAACCATCTCGCTCCTCTTCGAGACTGGGCGCACAAAGGCTGCGAGATC	3240
Query	3241	TGGCGTGGCTGTGGAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCGTGGCTGTGGAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACGCCCGGTGCGGTGACATCATCAACGGCTTGGCCGCTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACGCCCGGTGCGGTGACATCATCAACGGCTTGGCCGCTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAAATGGTCTCAAGGGGTGGAGGTGTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAAATGGTCTCAAGGGGTGGAGGTGTGCTGG	3420
Query	3421	CGCCCATACGCGGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATACGCGGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCTTGGAACAGTGATCAATGGGGTATGCTGGACTGTCTACCAAGGGGCGGAA	3600
Sbjct	3541	AGACCTTCTTGGAACAGTGATCAATGGGGTATGCTGGACTGTCTACCAAGGGGCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCAAGGGTCTGTGCATCCAGAGCTATACCAATGTGGATCAAG	3660
Query	3661	ACCTTGTGGGTGGCCCGCTCCTCAAGGTTCCCGCTATTGACACCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTCGTGGGTGGCCCGCTCCTCAAGGTTCCCGCTATTGACACCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTCAATCCCGTGCGCCGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTCAATCCCGTGCGCCGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTCTCTACTTGAAGGCTCTCTCGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTCTCTACTTGAAGGCTCTCTCGGGG	3840
Query	3841	GTCCGCTGTGTGCCCGCGGACACGCCGTGGGCTATTACAGGCGCCGCTGTGCACCC	3900

Sbjct	3841	GTCCGCTGTTTGTGCCCCACGGACACGCCGTGGGCCATTACAGGCCCGCGGTGTGACCC	3900
Query	3901	GTGGAGTGCTTAAGCCGGTGGACTTTATCCTGTGGAGAACTTAGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGCTTAAGCCGGTGGACTTTATCCTGTGGAGAACTTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGCTGTTACAGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGCTGTTACAGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCACCGGCAGCGTAAAGAGCACCAAGGTCGGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCACCGGCAGCGTAAAGAGCACCAAGGTCGGGCTGCGTACGCAGCCA	4080
Query	4081	AGGGCTACAAGGTGTGGTGCTCAACCCCTCTGTGTGCTGCAACGCTGGGCTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTGGTGCTCAACCCCTCTGTGTGCTGCAACACTGGGCTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTGTATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTGTATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Query	4201	CTGGCAGCCCCATACGTACTCCACCTACGGCAAGTTCCTTGCCGACGCCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATACGTACTCCACCTACGGCAAGTTCCTTGCCGACGCCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTTATGACATAATAAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTTATGACATAATAAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	CGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGCTACTGTGTGCCATCTTAACATCAGGAGAGTGTCT	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGCTACTGTGTGCCATCTTAACATCAGGAGAGTGTCT	4440
Query	4441	TGTCCACCACGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGTGCAGCAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGTGCAGCAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGGGCTTGACGTGTCTGTCTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGGGCTTGACGTGTCTGTCTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTGTCGTGTCTGACCGATGCTCTCATGACTTGCCTTACCGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTGTCGTGTCTGACCGATGCTCTCATGACTTGCCTTACCGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTG	4740
Query	4741	ACCTTACCTTTACCAATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCTTACCTTTACCAATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCAGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCAGGGGAGC	4860
Query	4861	GCCCCTCGGGATGTTGCACTGCGCTGCTCTCTGTGATGCTATGACCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCTCGGGATGTTGCACTGCGCTGCTCTCTGTGATGCTATGACCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTACCGCCCGGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTACCGCCCGGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCGCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCACTC	5040

Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATTCTGGATTTTGGGAGGGCGCTTTACGGGCGCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCGAGCAAAAGCAGAGTGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCGAGCAAAAGCAGAGTGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTGGTATCGGCTTAAACCACCCTCCATGGGCCAACACCTTGCATACA	5220
Sbjct	5161	TGCGGAAGTGTGGTATCGGCTTAAACCACCCTCCATGGGCCAACACCTTGCATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCGTGACGACCCCAATACCAAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCGTGACGACCCCAATACCAAAATACATCATGA	5280
Query	5281	CATGCATGTGCGGCGACTTGGAGGTGTGACGAGCACTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTGCGGCGACTTGGAGGTGTGACGAGCACTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTGTGCGCGCGTATTGCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTGTGCGCGCGTATTGCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGTCTCAGCACTTACCGTACATCGAGCAAGGAGTATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGTCTCAGCACTTACCGTACATCGAGCAAGGAGTATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAGAGCCCTCGCCCTCTGACAGCCGCTCCCGCATGCAAGAGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAGAGCCCTCGCCCTCTGACAGCCGCTCCCGCATGCAAGAGTTATCA	5580
Query	5581	CCCTGCTGTGCAGACCACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCTGCTGTGCAGACCACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGTGGCTGCCAGCTCGCCGCCCGCGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGTGGCTGCCAGCTCGCCGCCCGCGTGCCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGTGGCTAGCTGGCGCCGC-CATCGGCAGCGTGGACTGGGGAAG	5879
Sbjct	5821	CCGCCCTTGTGGGCGTGGCTAGCTGGCGCCGCAC-TCGACAGCGTGGACTGGGGAAG	5879
Query	5880	GTCTCTGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTGTAGCAATC	5939
Sbjct	5880	GTCTCTGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTGTGTGCAATC	5939
Query	5940	AAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGGCATC	5999
Sbjct	5940	AAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGGCATC	5999
Query	6000	CTCTCGCTTGGAGCCCTTGATGCGGTGGTCTGCGCAGCAATACTGGCCGCGCAGCTT	6059
Sbjct	6000	CTCTCACTTGAGGCCCTTGCACTGGTGGTGGTCTTGGCATCAATACTGGCCGCGCGTGT	6059
Query	6060	GGCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCTCCCGGGG	6119
Sbjct	6060	GGCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCTCCCGGGG	6119
Query	6120	AACCATGTTTCCCCACGCACTACGTGCGGAGAGCGATGACGCGCGCGGCTCACTGCC	6179

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Sbjct 6120 AACCATGTTTCCCCCACACTACGTGCCGGAGAGCGATGCAGCCGCCCGCTCACTGCC 6179
Query 6180 ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG 6239
Sbjct 6180 ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG 6239
Query 6240 GAGTGTACCACTCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAG 6299
Sbjct 6240 GAGTGTACCACTCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAG 6299
Query 6300 GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT 6359
Sbjct 6300 GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT 6359
Query 6360 CCCTTTGTGTCCTGCCAGCGCGGTATAGGGGGTCTGGCGAGGAGCGGCATTATGCAC 6419
Sbjct 6360 CCCTTTGTGTCCTGCCAGCGCGGTATAGGGGGTCTGGCGAGGAGCGGCATTATGCAC 6419
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Sbjct 6420 ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC 6479
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Sbjct 6480 GTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCTTATTAAATGCTACACC 6539
Query 6540 ACGGGCCCCGTACTCCCCCTCCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGGTGTCT 6599
Sbjct 6540 ACGGGCCCCGTACTCCCCCTCCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGGTGTCT 6599
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Sbjct 6600 GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACT 6659
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Sbjct 6660 ACTGACAACTCTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAAATGGAC 6719
Query 6720 GGGGTGCGCCTACACAGGTTTGGCGCCCCCTTGCAAGCCCTTGTCTGCGGGAGGAGGTATCA 6779
Sbjct 6720 GGGGTGCGCCTACATAGGTTTGGCGCCCCCTTGCAAGCCCTTGTCTGCGGGAGGAGGTATCA 6779
Query 6780 TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGAATTACCTTGCAGAGCCCGAACCG 6839
Sbjct 6780 TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGAATTACCTTGCAGAGCCCGAACCG 6839
Query 6840 GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCC 6899
Sbjct 6840 GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCC 6899
Query 6900 GGGAGAAGGTTGGCGAGAGGGTACCCCCCTTCTATGCCAGCTCCTCGGCTAGCCAGCTG 6959
Sbjct 6900 GGGAGAAGGTTGGCGAGAGGGTACCCCCCTTCTATGCCAGCTCCTCGGCTAGCCAGCTG 6959
Query 6960 TCCGCTCCATCTCTCAAGGCAACTTGACCGCAACCATGACTCCCTGACGCGGAGCTC 7019
Sbjct 6960 TCCGCTCCATCTCTCAAGGCAACTTGACCGCAACCATGACTCCCTGACGCGGAGCTC 7019
Query 7020 ATAGAGGCTAACTCCTCTGTGGAGCAGGAGATGGGCGGCAACATACACAGGGTTGAGTCA 7079
Sbjct 7020 ATAGAGGCTAACTCCTCTGTGGAGCAGGAGATGGGCGGCAACATACACAGGGTTGAGTCA 7079
Query 7080 GAGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG 7139
Sbjct 7080 GAGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG 7139
Query 7140 GAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTTGCC 7199
Sbjct 7140 GAGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTGCGCCAGCCCTTGCC 7199
Query 7200 GTCTGGGCGCGGCCGACTACAACCCCCGCTAGTAGAGACGTGAAAAAGCCTGACTAC 7259
Sbjct 7200 GTCTGGGCGCGGCCGACTACAACCCCCGCTAGTAGAGACGTGAAAAAGCCTGACTAC 7259
Query 7260 GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCCTCTGTGCTCCG 7319
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Sbjct	7260	GAACCACTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCCTCTGTGCTCTCCG	7319
Query	7320	CCTCGGAAAAAGCGTAGCGGTGCTCTACCGAATCAACCTTATCTACTGCCTTGGCCGAG	7379
Sbjct	7320	CCTCGGAAAAAGCGTAGCGGTGCTCTACCGAATCAACCTTATCTACTGCCTTGGCCGAG	7379
Query	7380	CTTGCCACCAAAAAGTTTGTGGCAGCTCCTCAACTTCCGCGATTACGGGCGACAATACGACA	7439
Sbjct	7380	CTTGCCACCAAAAAGTTTGTGGCAGCTCCTCAACTTCCGCGATTACGGGCGACAATACGACA	7439
Query	7440	ACATCTCTGAGCCCGCCCTTCTGGCTG-----GACTCCGACGTTGAGTCTATTCT	7499
Sbjct	7440	ACATCTCTGAGCCCGCCCTTCTGGCTGCCCGCCGACTCCGACGTTGAGTCTATTCT	7499
Query	7500	TCCATG-----TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGTTG	7559
Sbjct	7500	TCCATGCCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGTTG	7559
Query	7560	ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCG	7619
Sbjct	7560	ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCG	7619
Query	7620	ACAGGCGCACTCGTACCCCGTGCCTGCGGAGGAACAAAACTGCCCATCAACGCACTG	7679
Sbjct	7620	ACAGGCGCACTCGTACCCCGTGCCTGCGGAGGAACAAAACTGCCCATCAACGCACTG	7679
Query	7680	AGCAACTCGTTGCTACGCCATCACAATCTGGTGATTCACCACCTTCACGCACTGCTTGC	7739
Sbjct	7680	AGCAACTCGTTGCTACGCCATCACAATCTGGTGATTCACCACCTTCACGCACTGCTTGC	7739
Query	7740	CAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC	7799
Sbjct	7740	CAAAAGGAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC	7799
Query	7800	GTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAG	7859
Sbjct	7800	GTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAG	7859
Query	7860	GAGCTTGCAGCCTGAGCGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
Sbjct	7860	GAGCTTGCAGCCTGGCGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
Query	7920	GACGTCCTGTGCCATGCCAGAAAGGCGTAGCCCCACATCAACTCCGTGTGAAAGACCTT	7979
Sbjct	7920	GACGTCCTGTGCCATGCCAGAAAGGCGTAGCCCCACATCAACTCCGTGTGAAAGACCTT	7979
Query	7980	CTGGAAGACAGTGTAACCAATAAGACACTACCATCATGGCCAAAGACGAGGTTTTCTGC	8039
Sbjct	7980	CTGGAAGACAGTGTAACCAATAAGACACTACCATCATGGCCAAAGACGAGGTTTTCTGC	8039
Query	8040	GTTACGCCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCTGTTTCCCGACCTGGGC	8099
Sbjct	8040	GTTACGCCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCTGTTTCCCGACCTGGGC	8099
Query	8100	GTGCGCGTGTGCGAGAAGATGCGCCTGTACGACGTGGTTAGCAAGTCCCCCTGGCCGTG	8159
Sbjct	8100	GTGCGCGTGTGCGAGAAGATGCGCCTGTACGACGTGGTTAGCAAGTCCCCCTGGCCGTG	8159
Query	8160	ATGGGAAGCTCCTACGGATTCCAATACTACCAAGGACAGCGGGTTGAATTCTCTGTGCAA	8219
Sbjct	8160	ATGGGAAGCTCCTACGGATTCCAATACTACCAAGGACAGCGGGTTGAATTCTCTGTGCAA	8219
Query	8220	GCGTGGAAGTCCAAGAAGACCCCGATGGGGTCTCGTATGATACCCGCTGTTTTGACTCC	8279
Sbjct	8220	GCGTGGAAGTCCAAGAAGACCCCGATGGGGTCTCGTATGATACCCGCTGTTTTGACTCC	8279
Query	8280	ACAGTCAGCTAGAGCGACATCCGTACGGAGGAGGCAATTACCAATGTTGTGACCTGGAC	8339
Sbjct	8280	ACAGTCAGCTAGAGCGACATCCGTACGGAGGAGGCAATTACCAATGTTGTGACCTGGAC	8339
Query	8340	CCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT	8399
Sbjct	8340	CCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT	8399
Query	8400	ACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACA	8459

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Sbjct 8400 ACTAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGAGCAGAGTACTGACA 8459
Query 8460 ACTAGCTGTGGTAACACCCTCACTTGTACATCAAGGCCCGGGCAGCCTGTGAGCCGCA 8519
Sbjct 8460 ACTAGCTGTGGTAACACCCTCACTCGCTACATCAAGGCCCGGGCAGCCTGTGAGCCGCA 8519
Query 8520 GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT 8579
Sbjct 8520 GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT 8579
Query 8580 GCGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCCAGGTAC 8639
Sbjct 8580 GCGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCCAGGTAC 8639
Query 8640 TCCGccccccggggccccccACAACCAGAAATACGACTTGGAGCTTATAACATCATGC 8699
Sbjct 8640 TCCGCCCCCCCCGGGACCCCCCAACCAGAAATACGACTTGGAGCTTATAACATCATGC 8699
Query 8700 TCCTCCAACGTGTCACTGCGCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGT 8759
Sbjct 8700 TCCTCCAACGTGTCACTGCGCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGT 8759
Query 8760 GACCCCTACAACCCCCCTCGCGAGAGCCGCTGGGAGACGCAAGACACACTCCAGTCAAT 8819
Sbjct 8760 GACCCCTACAACCCCCCTCGCGAGAGCCGCTGGGAGACGCAAGACACACTCCAGTCAAT 8819
Query 8820 TCCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATG 8879
Sbjct 8820 TCCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATG 8879
Query 8880 ACCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACCTGTGAG 8939
Sbjct 8880 ACCCACTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTCAACTGCGAG 8939
Query 8940 ATCTACGGAGCCTGCTACTCCATAGAACCACTGGAATCTACCTCCAATCATTCAGAGACTC 8999
Sbjct 8940 ATCTACGGAGCCTGCTACTCCATAGAACCACTGGAATCTACCTCCAATCATTCAGAGACTC 8999
Query 9000 CATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCC 9059
Sbjct 9000 CATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCC 9059
Query 9060 GCATGCCCTCAGAAAACCTTGGGGTCCC GCCCTTGGCGAGCTTGGAGACACCGGGCCCGGAGC 9119
Sbjct 9060 GCATGCCCTCAGAAAACCTTGGGGTCCC GCCCTTGGCGAGCTTGGAGACACCGGGCCCGGAGC 9119
Query 9120 GTCCGCGCTAGGCTTCTGTCCAGAGGAGGCGGGCTGCCATATGTGGCAAGTACCTCTTC 9179
Sbjct 9120 GTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAAGGCTGCCATATGTGGCAAGTACCTCTTC 9179
Query 9180 AACTGGGCGAGTAAAGACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCGGCTGGAC 9239
Sbjct 9180 AACTGGGCGAGTAAAGACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCGGCTGGAC 9239
Query 9240 TTGTCGGGTTGGTTACCGGCTGGCTACAGCGGGGAGACATTTATACAGCGTGTCTCAT 9299
Sbjct 9240 TTGTCGGGTTGGTTACCGGCTGGCTACAGCGGGGAGACATTTATACAGCGTGTCTCAT 9299
Query 9300 GCCCGGCCCCGCTGGTTCTGGTTTTTGCTTACTCCTGCTGCTGACAGGGGTAGGCATCTAC 9359
Sbjct 9300 GCCCGGCCCCGCTGGTTCTGGTTTTTGCTTACTCCTGCTGCTGACAGGGGTAGGCATCTAC 9359
Query 9360 CTCTCCCCAACCGATGAAGATTGGGCTAACCACCTCCAGGCCAAT-AGGCCATTCCT 9416
Sbjct 9360 CTCTCCCCAACCGATGAAGATTGGGCTAACCACCTCCAGGCCAAT-AGGCCATTCCT 9416

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>gb|AR030378.1|AR030378 Sequence 1 from patent US 5861267
Length=9401

Score = 1.687e+04 bits (9137), Expect = 0.0
Identities = 9318/9406 (99%), Gaps = 10/9406 (0%)
Strand=Plus/Plus

Query 1 GCCAGCCCCCTGATGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAACACT 59

9/8/2009

Sbjct 1140 |GGGAGCGCCACCCCTCTGCTCAGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTTTTCTT| 1199
Query 1200 |GTTGTCACACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAA-GACTGCAATTG| 1258
Sbjct 1200 |GTTGTCACACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAAG-CTGCAATTG| 1258
Query 1259 |TTCTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACCTG| 1318
Sbjct 1259 |TTCTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACCTG| 1318
Query 1319 |GTCCCCATACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGA| 1378
Sbjct 1319 |GTCCCCATACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGA| 1378
Query 1379 |CATGATCGCTGGTGCTCACTGGGGAGTCTGGCGGGCATAGCGTATTCTCCATGGTGGG| 1438
Sbjct 1379 |CATGATCGCTGGTGCTCACTGGGGAGTCTGGCGGGCATAGCGTATTCTCCATGGTGGG| 1438
Query 1439 |GAACCTGGGCGAAGGTCTCTGGTAGTGTCTGCTATTTCGCGGCTCGACGCGGAACCCCA| 1498
Sbjct 1439 |GAACCTGGGCGAAGGTCTCTGGTAGTGTCTGCTATTTCGCGGCTCGACGCGGAACCCCA| 1498
Query 1499 |CGTCACCGGGGGAAATGCCGGCCGACACCGGTGGGCTTGTTGGTCTCCTTACACCAGG| 1558
Sbjct 1499 |CGTCACCGGGGGAAATGCCGGCCGACACCGGTGGGCTTGTTGGTCTCCTTACACCAGG| 1558
Query 1559 |CGCCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCAGATCAATAGCAGCGC| 1618
Sbjct 1559 |CGCCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCAGATCAATAGCAGCGC| 1618
Query 1619 |CTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAA| 1678
Sbjct 1619 |CTTGAATTGCAACGATAGCCTTACCACCGGCTGGTTAGCAGGGCTCTTCTATCGCCACAA| 1678
Query 1679 |ATTCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCAGCGCCTTACCGATTTTGC| 1738
Sbjct 1679 |ATTCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCAGCGCCTTACCGATTTTGC| 1738
Query 1739 |CCAGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTG| 1798
Sbjct 1739 |CCAGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCTTTCAGCAACGCCCTACTG| 1798
Query 1799 |CTGGCACTACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGT| 1858
Sbjct 1799 |TTGGCACTACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGT| 1858
Query 1859 |ATATTGCTTCACTCCCGCCCGTGGTGGTGGGAACGACGACAGGTGGGCGCGCCTAC| 1918
Sbjct 1859 |ATATTGCTTCACTCCCGCCCGTGGTGGTGGGAACGACGACAGGTGGGCGCGCCTAC| 1918
Query 1919 |CTACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCTTAACAACACGAGGCCACCGCT| 1978
Sbjct 1919 |CTACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCTTAACAACACGAGGCCACCGCT| 1978
Query 1979 |GGGCAATTGGTTTCGGTTGTACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGC| 2038
Sbjct 1979 |GGGCAATTGGTTTCGGTTGTACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGC| 2038
Query 2039 |GCCCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCACTGATTGCTT| 2098
Sbjct 2039 |GCCCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCACTGATTGCTT| 2098
Query 2099 |CGCAAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG| 2158
Sbjct 2099 |CGCAAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG| 2158
Query 2159 |GTGCATGGTGCATACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT| 2218
Sbjct 2159 |GTGCATGGTGCATACCCGTATAGGCTTTGGCACTATCCTTGTATCATCAATTACACCAT| 2218
Query 2219 |ATTCAAAGTCAGGATGTACGTGGGAGGGTTCGAGCACAGGCTGGAAGCGGCTCGCAACTG| 2278
Sbjct 2219 |ATTCAAAGTCAGGATGTACGTGGGAGGGTTCGAGCACAGGCTGGAAGCGGCTCGCAACTG| 2278
Query 2279 |GACGCGGGCGGAACGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCCGTTGCT| 2338

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Sbjct 2279  GACGCGGGGCGAAGCGTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCT 2338
Query 2339  GCTGTCCACACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCTGCCAGCCCTGTGCT 2398
Sbjct 2339  GCTGTCCACACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCTGCCAGCCCTGTGCT 2398
Query 2399  CACCGGCTCATCCACCTCCACAGAACATTGTGGAGTGCAGTACTTGTACGGGGTAGG 2458
Sbjct 2399  CACCGGCTCATCCACCTCCACAGAACATTGTGGAGTGCAGTACTTGTACGGGGTAGG 2458
Query 2459  GTCAAGCATCGCGTCTCGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCT 2518
Sbjct 2459  GTCAAGCATCGCGTCTCGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCT 2518
Query 2519  TGCAGACGCGCGCTGTGCTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGC 2578
Sbjct 2519  TGCAGACGCGCGCTGTGCTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGC 2578
Query 2579  GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCTGGCCGGGACGCGGCTTGTG 2638
Sbjct 2579  GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCTGGCCGGGACGCGGCTTGTG 2638
Query 2639  GTCCCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGC 2698
Sbjct 2639  GTCCCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGC 2698
Query 2699  GGTCTACGCCCTCTACGGGATGTGGCTCTCTCTGCTCTGCTGCGGTTGGCTCAGCG 2758
Sbjct 2699  GGTCTACGCCCTCTACGGGATGTGGCTCTCTCTGCTCTGCTGCGGTTGGCTCAGCG 2758
Query 2759  GGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGT 2818
Sbjct 2759  GGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGT 2818
Query 2819  AATGGCGTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCAATGTGGTGGCT 2878
Sbjct 2819  AATGGCGTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCAATGTGGTGGCT 2878
Query 2879  TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCAGTGTGGGTTTCAACGCT 2938
Sbjct 2879  TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCAGTGTGGGTTTCCCCCTCAACGCT 2938
Query 2939  CCgggggggCGGATGCGCTCACTTACTCATGTGTGTAGTACACCCGACCTTGGTATT 2998
Sbjct 2939  CCGGGGGGGCGGATGCGCTCACTTACTCATGTGTGTGTAGTACACCCGACTCTGGTATT 2998
Query 2999  TGACATACCAAATACTCTTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT 3058
Sbjct 2999  TGACATACCAAATACTCTTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT 3058
Query 3059  GCTTAAAGTCCCTACTTCTGTCGCGGTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGG 3118
Sbjct 3059  GCTTAAAGTCCCTACTTCTGTCGCGGTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGG 3118
Query 3119  GAAGATAGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG 3178
Sbjct 3119  GAAGATAGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG 3178
Query 3179  CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAAGCGCTGCGAGA 3238
Sbjct 3179  CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAAGCGCTGCGAGA 3238
Query 3239  TCTGGCGTGGCTGTGGAAACAGTCGCTTCTCCGGAATGGAGACCAAGCTCATCAGCTG 3298
Sbjct 3239  TCTGGCGTGGCTGTGGAAACAGTCGCTTCTCCGGAATGGAGACCAAGCTCATCAGCTG 3298
Query 3299  GGGGGCAGATACCGCCGCGTGCAGTACATCAACGGCTTGCCCGTCTCTGCCCGTAG 3358
Sbjct 3299  GGGGGCAGATACCGCCGCGTGCAGTACATCAACGGCTTGCCCGTCTCTGCCCGTAG 3358
Query 3359  GGGCCAGGAGATACTGCTTGGGCGAGCCGACGGAATGGTCTCCAAGGGGTGGAGTTGCT 3418
Sbjct 3359  GGGCCAGGAGATACTGCTTGGGCGAGCCGACGGAATGGTCTCCAAGGGGTGGAGTTGCT 3418
Query 3419  GGGCCCATACGGCGTACGCCAGCAGACGAGAGGCTCTTAGGGTGATAATCACCAG 3478

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Sbjct 3419 |GGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCTCTTAGGGTGTAATCACCAG| 3478
Query 3479 |CCTGACTGGCGGGACAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTAC| 3538
Sbjct 3479 |CCTGACTGGCGGGACAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTAC| 3538
Query 3539 |CCAAACCTTCTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG| 3598
Sbjct 3539 |CCAAACCTTCTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG| 3598
Query 3599 |AACGAGGACCATCGCATCACCCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCA| 3658
Sbjct 3599 |AACGAGGACCATCGCATCACCCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCA| 3658
Query 3659 |AGACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCTGCTCATTGACACCTGTACCTGGCG| 3718
Sbjct 3659 |AGACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCTGCTCATTGACACCTGTACCTGGCG| 3718
Query 3719 |CTCCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTCAITCCCCTGCGCCGGCAGG| 3778
Sbjct 3719 |CTCCTCGGACCTTTACCTGGTACGAGGCACGCCGAGCTCAITCCCCTGCGCCGGCAGG| 3778
Query 3779 |TGATAGCAGGGGTAGCCTGCTTTTCGCCCGGCCCATTTCTACTTTGAAAGGCTCCTCGGG| 3838
Sbjct 3779 |TGATAGCAGGGGTAGCCTGCTTTTCGCCCGGCCCATTTCTACTTTAAAGGCTCCTCGGG| 3838
Query 3839 |GGGTCGCTGTTGTGCCCCGCGGACACGCCGTGGGCTATTAGGGCCGCGGTGTGCAC| 3898
Sbjct 3839 |GGGTCGCTGTTGTGCCCCGCGGACACGCCGTGGGCTATTAGGGCCGCGGTGTGCAC| 3898
Query 3899 |CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACTAGGACAACCATGAG| 3958
Sbjct 3899 |CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACTAGGACAACCATGAG| 3958
Query 3959 |ATCCCCTGTTTACGGACAACCTCCTCTCCACGACGAGTGCCTCCAGAGCTTCCAGGTGGC| 4018
Sbjct 3959 |ATCCCCTGTTTACGGACAACCTCCTCTCCACGACGAGTGCCTCCAGAGCTTCCAGGTGGC| 4018
Query 4019 |CCACCTGCATGCTCCACCGGCAGCGTAAGAGCACCAAGGTCCCGGCTGCGTACGACGC| 4078
Sbjct 4019 |CCACCTGCATGCTCCACCGGCAGTGTAAGAGCACCAAGGTCCCGGCTGCGTACGACGC| 4078
Query 4079 |CCAGGGCTACAAGGTGTTGGTGTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC| 4138
Sbjct 4079 |CCAGGGCTACAAGGTGTTGGTGTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC| 4138
Query 4139 |TTACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTAC| 4198
Sbjct 4139 |TTACATGTCCAAGGCCATGGGGTGCATCCTAATATCAGGACCGGGGTGAGAACAATTAC| 4198
Query 4199 |CACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGGCGCAGCGGGGTGCTC| 4258
Sbjct 4199 |CACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGGCGCAGCGGGGTGCTC| 4258
Query 4259 |AGGAGGTGCTTATGACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCAT| 4318
Sbjct 4259 |AGGAGGCGCTTATGACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCAT| 4318
Query 4319 |CTTGGGCATCGGCACTGTCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT| 4378
Sbjct 4319 |CTTGGGCATCGGCACTGTCTCTTGACCAAGCAGAGACTGCGGGGGCGAGATTGGTTGTGCT| 4378
Query 4379 |CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCATCCTAATCATGAGGAGGTGTC| 4438
Sbjct 4379 |CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCATCCTAATCATGAGGAGGTGTC| 4438
Query 4439 |TCTGTCCACCACCGGAGAGATCCCCCTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCA| 4497
Sbjct 4439 |TCTGTCCACCACCGGAGAGATCCC-TTCTACGGCAAGGCTATCCCCCTCGAGGTGATCA| 4497
Query 4498 |AGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCACGAGCTCGCCGCGA| 4557
Sbjct 4498 |AGGGGGGAAGACATCTCATCTTCTGTGCTCAAGAAGAGAGTGCACGAGCTCGCCGCGA| 4557
Query 4558 |AGCTGGTCGATTGGGCATCAATGCCGTGGCTACTACCGCGGTCTTGACGTGTCTGTCA| 4617
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Sbjct 4558 AGCTGGTGCATTGGGCATCAATGCCGTGGCTACTACCGCGGACTTGACGTGTCGTGCA 4617
Query 4618 TCCCAGCCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCG 4677
Sbjct 4618 TCCCAGCCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCG 4677
Query 4678 GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACCTAGACAGTCGATTTCAGCC 4737
Sbjct 4678 GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACCTAGACAGTCGATTTCAGCC 4737
Query 4738 TTGACCTACCTTTTACCATTGAGACAAACACGCTCCCCAGGATGCTGTCTCCAGGACTC 4797
Sbjct 4738 TTGACCTACCTTTTACCATTGAGACAAACACGCTCCCCAGGATGCTGTCTCCAGGACTC 4797
Query 4798 AACGCCGGGGCAGGACTTGGCAGGGGGAAGCCAGGCATCTATGATTGTGGCACC GGGGG 4857
Sbjct 4798 AGCGCCGGGGCAGGACTTGGCAGGGGGAAGCCAGGCATCTACAGATTGTGGCACC GGGGG 4857
Query 4858 AGCGCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTG 4917
Sbjct 4858 AGCGCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTG 4917
Query 4918 CTTGGTATGAGCTCAGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC 4977
Sbjct 4918 CTTGGTATGAGCTCATGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC 4977
Query 4978 CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCA 5037
Sbjct 4978 CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCA 5037
Query 5038 CTCATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC 5097
Sbjct 5038 CCCATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC 5097
Query 5098 TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACC 5157
Sbjct 5098 TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACC 5157
Query 5158 AGATGTGGAAGTGTTTGAATCCGCCCTTAAACCCACCCCTCCATGGGCCAACACCCCTGCTAT 5217
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Sbjct 5278 TGACATGCATGTGCGCCGACCTGGAGGTGCTCAGGACCACTGGGTGCTGCTTGGCGGG 5337
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Sbjct 5338 TCCTGGCTGCTCTGGCCGCGTATTGCCGTGTCAACAGGCTGCGTGGTCAATAGTGGGAGGA 5397
Query 5398 TCGTCTTGTCCGGGAAGCCGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTG 5457
Sbjct 5398 TTGCTTGTCCGGGAAGCCGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTG 5457
Query 5458 ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCAGCAAGGGATGATGCTCGCTG 5517
Sbjct 5458 ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCAGCAAGGGATGATGCTCGCTG 5517
Query 5518 AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGGTCGCCCATGCAGAGGTTA 5577
Sbjct 5518 AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGGTCGCCCATGCAGAGGTTA 5577
Query 5578 TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTTCTTTGGGCGAAGCACATGT 5637
Sbjct 5578 TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTTCTTTGGGCGAAGCACATGT 5637
Query 5638 GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCCG 5697
Sbjct 5638 GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCCG 5697
Query 5698 CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAA 5757
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Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAA	5757
Query	5758	CCCTCCTCTTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGTGGCG	5817
Sbjct	5758	CCCTCCTCTTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGTGGCG	5817
Query	5818	CTACTGCCTTTTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	CTACCGCCTTTTGGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Query	5878	AGGTCTCTGTGGACATCTTTCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCTCTGTGGACATCTTTCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCCA	5997
Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCCA	5997
Query	5998	TCCTCTCGCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCGGCACG	6057
Sbjct	5998	TCCTCTCGCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCGGCACG	6057
Query	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGCTAATAGCCTTCGCCTCCGGG	6117
Sbjct	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGCTAATAGCCTTCGCCTCCGGG	6117
Query	6118	GGAACCATGTTTCCCCCAGCAGCTACGTGCCGGAGAGCGATGCAGCGCCCGCGTCACTG	6177
Sbjct	6118	GGAACCATGTTTCCCCCAGCAGCTACGTGCCGGAGAGCGATGCAGCGCCCGCGTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTACCACTTCATGCTCCGGTCTCCGGTGAAGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	CGGAGTGTACCACTTCATGCTCCGGTCTCCGGTGAAGGACATCTGGGACTGGATATGCG	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCTGGGA	6357
Sbjct	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCTGGGA	6357
Query	6358	TTCCCTTTGTGCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGC	6417
Sbjct	6358	TTCCCTTTGTGCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGC	6417
Query	6418	ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Sbjct	6418	ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Query	6478	TCGTGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCATTAACGCCCTACA	6537
Sbjct	6478	TCGTGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCATTAACGCCCTACA	6537
Query	6538	CCAGGGGCCCCGTACTCCCTTCCTGCGCCGAACATAAGTTCGGCGTGTGGAGGGGTGT	6597
Sbjct	6538	CCAGGGGCCCCGTACTCCCTTCCTGCGCCGAACATAAGTTCGGCGTGTGGAGGGGTGT	6597
Query	6598	CTGCAGAGGAATACGTGGAGATAAGCGCGGTGGGGGACTTCCACTACGTATCGGGTATGA	6657
Sbjct	6598	CTGCAGAGGAATACGTGGAGATAAGCGCGGTGGGGGACTTCCACTACGTATCGGGTATGA	6657
Query	6658	CTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTCACAGAAATTG	6717
Sbjct	6658	CTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTCACAGAAATTG	6717
Query	6718	ACGGGGTGCGCTACACAGGTTTTCGCCGCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTAT	6777
Sbjct	6718	ACGGGGTGCGCTACATAGGTTTTCGCCGCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTAT	6777
Query	6778	CATTAGATAGGACTCCACAGTACCCCGTGGGGTGCGAATTACCTTGCAGAGCCGAAC	6837
Sbjct	6778	CATTAGATAGGACTCCACAGTACCCCGTGGGGTGCGAATTACCTTGCAGAGCCGAAC	6837
Query	6838	CGGACGTAGCCGTGTGTGACGTCCATGCTCTACTGATCCCTCCCATATAACAGCAGAGGCGG	6897

Sbjct	6838	CGGACGTAGCCGTTGTTGACGTCCATGCTCACTGATCCCTCCCATATAAACAGCAGAGGCGG	6897
Query	6898	CCGGGAGAAAGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCTCGGCAGGCAGC	6957
Sbjct	6898	CCGGGAGAAAGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCTCGGCAGGCAGC	6957
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Sbjct	6958	TGTCGGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGC	7017
Query	7018	TCATAGAGGTAACCTCCTGTGGAGGCAGGAGATGGCGGCAACATCACCAGGGTTGAGT	7077
Sbjct	7018	TCATAGAGGTAACCTCCTGTGGAGGCAGGAGATGGCGGCAACATCACCAGGGTTGAGT	7077
Query	7078	CAGAGAAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC	7137
Sbjct	7078	CAGAGAAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC	7137
Query	7138	GGGAGGTCTCCGTACCTGCAGAAATCTCGGGAAGTCTCGGAGATTGCGCCGGGCCCTGC	7197
Sbjct	7138	GGGAGGTCTCCGTACCTGCAGAAATCTCGGGAAGTCTCGGAGATTGCGCCGGGCCCTGC	7197
Query	7198	CCGTCTGGGCGCGCGCGGACTACAACCCCCCGTAGTAGAGACGTGGAAAAAGCCTGACT	7257
Sbjct	7198	CCGTCTGGGCGCGCGCGGACTACAACCCCCCGTAGTAGAGACGTGGAAAAAGCCTGACT	7257
Query	7258	ACGAACCACTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCCTCTGTGGCTC	7317
Sbjct	7258	ACGAACCACTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCCTCTGTGGCTC	7317
Query	7318	CGCCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCATCTACTGCTTTGGCGG	7377
Sbjct	7318	CGCCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCATCTACTGCTTTGGCGG	7377
Query	7378	AGCTTGCACAAAAGTTTGGCGAGCTCCTCAACTCTCGGCAATTACGGGCGACAATGACA	7437
Sbjct	7378	AGCTTGCACAAAAGTTTGGCGAGCTCCTCAACTCTCGGCAATTACGGGCGACAATGACA	7437
Query	7438	CAACATCTCTTGAGCCGCGCCCTTCTGGCTGCGCCCGGACTCCGACGTTAGTCTCTATT	7497
Sbjct	7438	CAACATCTCTTGAGCCGCGCCCTTCTGGCTGCGCCCGGACTCCGACGTTAGTCTCTATT	7497
Query	7498	CTTCCATGCGCCCGCTGGAGGGGGAGCTGGGGATCCGGATCTCAGCGACGGGTATGGT	7557
Sbjct	7498	CTTCCATGCGCCCGCTGGAGGGGGAGCTGGGGATCCGGATCTCAGCGACGGGTATGGT	7557
Query	7558	CGACGGTCAGTAGTGGGGCGGACAGGGAAGATGCTGTGTGCTCAATGCTTATTCTCT	7617
Sbjct	7558	CGACGGTCAGTAGTGGGGCGGACAGGGAAGATGCTGTGTGCTCAATGCTTATTCTCT	7617
Query	7618	GGACAGGCGCACTCGTACCCCGTGCCTGCGGAAGAACAAAAATGCCCATCAACGCAC	7677
Sbjct	7618	GGACAGGCGCACTCGTACCCCGTGCCTGCGGAAGAACAAAAATGCCCATCAACGCAC	7677
Query	7678	TGAGCAACTCGTGTCTACGCCATCACAATCTGGTGATTTCACCACTTCACGCAGTGCTT	7737
Sbjct	7678	TGAGCAACTCGTGTCTACGCCATCACAATCTGGTGATTTCACCACTTCACGCAGTGCTT	7737
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Query	7798	ACGTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAG	7857
Sbjct	7798	ACGTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAG	7857
Query	7858	AGGAAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGCTATGGGGCAA	7917
Sbjct	7858	AGGAAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGCTATGGGGCAA	7917
Query	7918	AAGACGTCGGTTGCCATGCCAGAAAGGCGGTAGCCACATCAACTCCGTGTGGAAAGACC	7977
Sbjct	7918	AAGACGTCGGTTGCCATGCCAGAAAGGCGGTAGCCACATCAACTCCGTGTGGAAAGACC	7977
Query	7978	TTCTGGAAGACAGTGTAAACCAATAGACACTACCAATCATGGCCAGAACGAGGTTTCT	8037

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Sbjct 7978 TTCTGGAGACAGTGTAAACCAATAGACACTATCATCATGGCCAAGAAGAGGCTCTTCT 8037
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Sbjct 8038 GCGTTACAGCCTGAGAGGGGGGTCGTAAGCCAGCTCGTCTCATCTGTGTCCCGGACCTGG 8097
Query 8098 GCGTGCAGCTGTGCGAGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCGTGGCG 8157
Sbjct 8098 GCGTGCAGCTGTGCGAGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCGTGGCG 8157
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Sbjct 9058 CCGCATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGA 9117
Query 9118 GCGTCCGCTAGGCTTCTGTCCAGAGGAGGAGGCTGCCATATGTGGCAAGTACCTCT 9177
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Sbjct  9118  |||||CCGCTAGGCTTCTGTCACAGGGAGGAGGCTGCCATATGTGGCAAGTACCTCT 9177
Query  9178  TCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCCTGGCCGGCTGG 9237
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Sbjct  9298  ATGCCCGGCCCGGCTGGTTCGTGTTTGGCTACTCCTGCTCGCTCAGGGGTAGGCATCT 9357
Query  9358  ACCTCTCTCCCAACCGATGAAGGTGGG-G-TAAACACTCCGGCCT 9401
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>gb|AR607374.1| Sequence 7 from patent US 6821955
Length=9365

Score = 1.665e+04 bits (9016), Expect = 0.0
Identities = 9249/9365 (98%), Gaps = 2/9365 (0%)
Strand=Plus/Plus

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Query  14  TGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTGTCTTCACGCGAA 73
Sbjct  2  TGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTGTCTTCACGCGAA 61
Query  74  AGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAacccccTCCCGG 133
Sbjct  62  AGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGACCCCCCTCCCGG 121
Query  134  AGAGCCATAGTGTCTGCGGAACCGGTGAGTACACCGGAATGCCAGGACGACCGGGTCC 193
Sbjct  122  AGAGCCATAGTGTCTGCGGAACCGGTGAGTACACCGGAATGCCAGGACGACCGGGTCC 181
Query  194  TTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCCGCAAGACTGCTAG 253
Sbjct  182  TTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCCGCAAGACTGCTAG 241
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Sbjct  302  CCCCGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAAC 361
Query  374  CAAACGTAAACCAACCGTCGCCACAGGACGTCAAGTTCGCCGGTGCGCGTCAGATCGT 433
Sbjct  362  CAAACGTAAACCAACCGTCGCCACAGGACGTCAAGTTCGCCGGTGCGCGTCAGATCGT 421
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Sbjct  422  TGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCAGCAGGAA 481
Query  494  GACTTCCGAGCGGTGCGCAACCTCGAGGTAGACGTGAGCCTATCCCCAAGGACGTCGGCC 553
Sbjct  482  GACTTCCGAGCGGTGCGCAACCTCGAGGTAGACGTGAGCCTATCCCCAAGGACGTCGGCC 541
Query  554  CGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTATAGGCAATGAGGGTTG 613
Sbjct  542  CGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTATAGGCAATGAGGGTTG 601
Query  614  CGGGTGGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGA 673
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Query  674  CCCCCGGCGTAGGTGCGCAATTTGGGTAAAGTCAATCGATACCCCTACGTGCGGCTTCG 733
Sbjct  662  CCCCCGGCGTAGGTGCGCAATTTGGGTAAAGTCAATCGATACCCCTACGTGCGGCTTCG 721
Query  734  CGACCTCATGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGCGCTGCCAGGGCCCT 793

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Sbjct	722	CGACCTCATGGGTACATACCGCTCGTGGGCGCCCTCTGGAGGCGCTGCCAGGGCCCT	781
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Sbjct	782	GGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCTCGG	841
Query	854	TTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCGCTTCAGC	913
Sbjct	842	TTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCGCTTCAGC	901
Query	914	CTACCAAGTGCAGCAATTCCTCGGGGCTTTACCATGTGACCAATGATTGCCCTAACTCGAG	973
Sbjct	902	CTACCAAGTGCAGCAATTCCTCGGGGCTTTACCATGTGACCAATGATTGCCCTAACTCGAG	961
Query	974	TATTGTGTACGAGGCGGCGCATGCCATCCCTGCACACTCCGGGTGTGTCCTTGGGTTGC	1033
Sbjct	962	TATTGTGTACGAGGCGGCGCATGCCATCCCTGCACACTCCGGGTGTGTCCTTGGGTTGC	1021
Query	1034	CAGGGTAAACGCTCGAGGTGTGGGTGGCGGTGACCCCAAGTGGCCACAGGGACGG	1093
Sbjct	1022	CAGGGTAAACGCTCGAGGTGTGGGTGGCGGTGACCCCAAGTGGCCACAGGGACGG	1081
Query	1094	CAAACCTCCCAACAACGAGCTTCGACGTATATCGATCTGCTTGTGCGGAGCGCCACCT	1153
Sbjct	1082	CAAACCTCCCAACAACGAGCTTCGACGTATATCGATCTGCTTGTGCGGAGCGCCACCT	1141
Query	1154	CTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTCTTGTGTGTCAACTGTT	1213
Sbjct	1142	CTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTCTTGTGTGTCAACTGTT	1201
Query	1214	TACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCG	1273
Sbjct	1202	TACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCG	1261
Query	1274	CCATATAACGGGTCATCGCATGGGATATGATGATGAACCTGGTCCCCACGGCAGC	1333
Sbjct	1262	CCATATAACGGGTCATCGCATGGGATATGATGATGAACCTGGTCCCCACGGCAGC	1321
Query	1334	GTGTGTGTAGTCTCAGCTGCTCCGGATCCCAAGCCATCATGGACATGATCGTGGTGC	1393
Sbjct	1322	GTGTGTGTAGTCTCAGCTGCTCCGGATCCCAAGCCATCATGGACATGATCGTGGTGC	1381
Query	1394	TCACCTGGGAGTCTCTGGCGGCGATAGCGTATTTCTCCATGGTGGGAACTGGCGAAGT	1453
Sbjct	1382	TCACCTGGGAGTCTCTGGCGGCGATAGCGTATTTCTCCATGGTGGGAACTGGCGAAGT	1441
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Sbjct	1442	CTGTGTAGTGTCTGCTGCTATTGTGCGGCGTTCGACGCGGAAACCCAGCTACCGGGGAA	1501
Query	1514	TGCCGGCGCACCAACGGCTGGGCTTGTGGTCTCCTTACACAGGCGCCAAGCAGAAT	1573
Sbjct	1502	TGCCGGCGCACCAACGGCTGGGCTTGTGGTCTCCTTACACAGGCGCCAAGCAGAAT	1561
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Sbjct	1562	CCAACCTGATCAACACCAACCGCAGTTGGCAGATCAATAGCAGGCTTGAATTGCAATGA	1621
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Sbjct	1742	TATCAGTTATGCCAACGGAAGCGGCTTCGATGAACGCCCTACTGCTGGCACTACCTCC	1801
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Sbjct	1802	AAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCC	1861
Query	1874	CAGCCCCGTGGTGGTGGGAACGACGAGGTGCGGCGGCCTACCTACAGCTGGGGTGC	1933

Sbjct	1862		CAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCTACAGCTGGGGTGC	1921
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Sbjct	1922		AAATGATACGGATGTCTTTGTCCTTAACACACCAAGCCACCCTGGGCAATTGGTTCGG	1981
Query	1994		TTGTACCTGGATGAACCTCAACTGGATTACCAAAGGTGTCGGAGCGCCCTTGTGTCAT	2053
Sbjct	1982		TTGCACCTGGATGAACCTCAACTGGATTACCAAAGGTGTCGGAGCGCCCTTGTGTCAT	2041
Query	2054		CGGAGGGGTGGGCAACAACACCTTGTCTGCCCCACTGATTGCTCCGCAAAATCCGGA	2113
Sbjct	2042		CGGAGGGGTGGGCAACAACACCTTGTCTGCCCCACTGATTGCTCCGCAAGCATCCGGA	2101
Query	2114		AGCCACATACTCTCGTGGCGCTCCGGTCCCTGGATTACACCAGGTGCATGGTCGACTA	2173
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Sbjct	2162		CCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGAT	2221
Query	2234		GTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCTGCAACTGGACGCGGGGCAACG	2293
Sbjct	2222		GTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCTGCAACTGGACGCGGGGCAACG	2281
Query	2294		CTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGTGTGTCTCCACCACACA	2353
Sbjct	2282		CTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGTGTGTCTCCACCACGCA	2341
Query	2354		GTGGCAGGTCTCTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCACCGGCTCATCCA	2413
Sbjct	2342		GTGGCAGGTCTCTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCACCGGCTCATCCA	2401
Query	2414		CCTCCACAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATTCGCGTC	2473
Sbjct	2402		CCTCCACAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATTCGCGTC	2461
Query	2474		CTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGAGACGCGCGGT	2533
Sbjct	2462		CTGGGCTATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGAGACGCGCGGT	2521
Query	2534		CTGCTCCTGCTTGTGGATGATGTTACTCATAATCCCAAGCGGAGGCGGCTTTGGAGAACCT	2593
Sbjct	2522		TTGCTCCTGCTTGTGGATGATGTTACTCATAATCCCAAGCGGAGGCGGCTTTGGAGAACCT	2581
Query	2594		CGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGTCTTGTGCTCTTCTCTGTGTT	2653
Sbjct	2582		CGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGTCTTGTGCTCTTCTCTGTGTT	2641
Query	2654		CTTCTGCTTTGCGTGTTATCTGAAGGGTAGGTGGGTGCCGGAGCGGTCTACGCCCTCTA	2713
Sbjct	2642		CTTCTGCTTTGCGTGTTATCTGAAGGGTAGGTGGGTGCCGGAGCGGTCTACGCCCTCTA	2701
Query	2714		CGGGATATGGGCTCTCCTCCTGCTCCTGCTGGCGTTCCTCAGCGGGCATACGCACTGGA	2773
Sbjct	2702		CGGGATATGGGCTCTCCTCCTGCTCCTGCTGGCGTTCCTCAGCGGGCATACGCACTGGA	2761
Query	2774		CACGGAGTGGCCGCGCTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAATGGCGCTGACTCT	2833
Sbjct	2762		CACGGAGTGGCCGCGCTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAATGGCGCTGACTCT	2821
Query	2834		GTCCGCATATTACAAGCGCTATATCAGCTGGTGCAATGTGGTGGCTTCAGTATTTCTGAC	2893
Sbjct	2822		GTCCGCATATTACAAGCGCTATATCAGCTGGTGCAATGTGGTGGCTTCAGTATTTCTGAC	2881
Query	2894		CAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGCTCCGAGGGGGCGCGA	2953
Sbjct	2882		CAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCCCAACGTTGGGGGGGGCGCGA	2941
Query	2954		TGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCTGGTATTTGACATCACAAAC	3012
Sbjct	2942		TGCCGTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACAAAC	3000
Query	3013		TACTCCTGGCCATCTTCGGACCCCTTTGGATCTCTTAAGCCAGTTTGTCTTAAAGTCCCCT	3072

Sbjct	3001	TACTCTGGCCATCTTCGAGACCCCTTTGGATTCTTCAAGCCAGTTTGTCTTAAAGTCCCCT	3060
Query	3073	ACTTCGTGCGCGTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATAGCCGGAG	3132
Sbjct	3061	ACTTCGTGCGCGTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATAGCCGGAG	3120
Query	3133	GTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGGCGCTTACTGGCACCTATGTGTATA	3192
Sbjct	3121	GTCATTACGTGCAAAATGATCTTCATCAAGTTAGGGGGCGCTTACTGGCACCTATGTGTATA	3180
Query	3193	ACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAGATCTGGCGGTGGCTG	3252
Sbjct	3181	ACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCTTGGAGATCTGGCGGTGGCTG	3240
Query	3253	TGGAACCACTGCTCTTCTCCCGAATGGAGACCAAGCTCATCAGTGGGGGGCAGATACCG	3312
Sbjct	3241	TGGAACCACTGCTCTTCTCCCGAATGGAGACCAAGCTCATCAGTGGGGGGCAGATACCG	3300
Query	3313	CCGCGTGGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCGTAGGGGGCCAGGAGATAC	3372
Sbjct	3301	CCGCGTGGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCGTAGGGGGCCAGGAGATAC	3360
Query	3373	TGCTTGGGCGAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTGTCTGGCGCCCATCACGG	3432
Sbjct	3361	TGCTTGGACACGCGACGGAATGGTCTCCAAGGGGTGGAGGTGTCTGGCGCCCATCACGG	3420
Query	3433	CGTACGCCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCCTGACTGGCCGGG	3492
Sbjct	3421	CGTACGCCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCCTGACTGGCCGGG	3480
Query	3493	ACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCTCTGG	3552
Sbjct	3481	ACAAGAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCTCTGG	3540
Query	3553	CAACGTGCATCAATGGGGTATGCTGGACTGTCTACACAGGGGCGGGAACGAGGACCATCG	3612
Sbjct	3541	CAACGTGCATCAATGGGGTATGCTGGACTGTCTACACAGGGGCGGGAACGAGGACCATCG	3600
Query	3613	CATCACCAAGGGTCCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCT	3672
Sbjct	3601	CATCACCAAGGGTCCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCT	3660
Query	3673	GGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCCTGACCTGCGGCTCCTCGGACCTTT	3732
Sbjct	3661	GGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCCTGACCTGCGGCTCCTCGGACCTTT	3720
Query	3733	ACCTGGTCACGAGGCACGCCGATGTCAATCCCGTGCGCGGCGAGGTGATAGCAGGGGTA	3792
Sbjct	3721	ACCTGGTCACGAGGCACGCCGATGTCAATCCCGTGCGCGGCGAGGTGATAGCAGGGGTA	3780
Query	3793	GCCTGCTTTCGCCCCGGCCATTTCTACTTGAAAGGCTCCTCGGGGGTCCGCTGTTGT	3852
Sbjct	3781	GCCTGCTTTCGCCCCGGCCATTTCTACTTGAAAGGCTCCTCGGGGGTCCGCTGTTGT	3840
Query	3853	GCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTCACCCGTGGAGTGGCTA	3912
Sbjct	3841	GCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTCACCCGTGGAGTGGCTA	3900
Query	3913	AAGCGGTGGACTTTATCCCTGTGGAGAACTAGGAGCAACCATGAGATCCCCGGTGTTC	3972
Sbjct	3901	AAGCGGTGGACTTTATCCCTGTGGAGAACTAGAGACAACCATGAGATCCCCGGTGTTC	3960
Query	3973	CGGACAACCTCCTCTCCACCAGCAGTGCCTCCAGAGCTTCCAGGTGGCCACCTGCATGCTC	4032
Sbjct	3961	CGGACAACCTCCTCTCCACCAGCAGTGCCTCCAGAGCTTCCAGGTGGCCACCTGCATGCTC	4020
Query	4033	CCACCGGCAGCGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTACAAGG	4092
Sbjct	4021	CCACCGGCAGCGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCTCAGGGCTATAAGG	4080
Query	4093	TGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGG	4152
Sbjct	4081	TGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGGCGTTACATGTCCAAGG	4140
Query	4153	CCCATGGGGTTGATCTTAATATCAGGACCGGGGTGAGAACAAATTACCAGTGGCAGCCCCA	4212

Sbjct	4141	CCCATGGGGTCGATCCTAATATCAGGACGGGGTGAACAACATTACCCTGGCAGCCCTA	4200
Query	4213	TCACGTA CTCCACCTACGGCAAGTTCCTTGC CCAGCGGGGGTGC TCAGGAGTGCTTATG	4272
Sbjct	4201	TCACGTA CTCCACCTACGGCAAGTTCCTTGC CCAGCGGGGGTGC TCAGGAGTGCTTATG	4260
Query	4273	ACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCA	4332
Sbjct	4261	ACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCA	4320
Query	4333	CTGTCCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCC	4392
Sbjct	4321	CTGTCCCTTGACCAAGCAGAGACTGCGGGGGCGAGATTGGTTGTGCTCGCCACTGCTACCC	4380
Query	4393	CTCCGGGCTCCGTCACTGTGTCCCATCTAACATCGAGGAGGTGTCTGTGCCACCACCG	4452
Sbjct	4381	CTCCGGGCTCCGTCACTGTGTCCCATCTAACATCGAGGAGGTGTCTGTGCCACCACCG	4440
Query	4453	GAGAGATCCCTTTTACGGCAAGGCTATCCCTTCGAGGTGATCAAGGGGGGAAGACATC	4512
Sbjct	4441	GAGAGATCCCTTTTACGGCAAGGCTATCCCTTCGAGGTGATCAAGGGGGGAAGACATC	4500
Query	4513	TCATCTTCTGCCACTCAAAGAGAAGTGCACGAGCTCGCCGCGAAGCTGTGTCGATTGG	4572
Sbjct	4501	TCATCTTCTGTCACTCAAAGAGAAGTGCACGAGCTCGCCGCGAAGCTGTGTCGACTGG	4560
Query	4573	GCATCAATGCCGTGGCCTACTACC CGGTCTTGACGTGTCTGTATCCCGACCAGCGGGC	4632
Sbjct	4561	GCATCAATGCCGTGGCCTACTACC CGGTCTTGACGTGTCTGTATCCCGGCCAGCGGGC	4620
Query	4633	ATGTTGTGCTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGACTTCGACTCTG	4692
Sbjct	4621	ATGTTGTGCTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGACTTCGACCTGT	4680
Query	4693	TGATAGACTGCAACAGTGTGTCACTACAGACGTGATTTCAGCTTGACCTTACCCCTTTA	4752
Sbjct	4681	TGATAGACTGCAACAGTGTGTCACTACAGACGTGATTTCAGCTTGACCTTACCCCTTTA	4740
Query	4753	CCATTGAGACAACCAAGCTCCCCAGGATGCTGTCTCAGGACTCAACGCCGGGGCAGGA	4812
Sbjct	4741	CCATTGAGACAACCAAGCTCCCCAGGATGCTGTCTCAGGACTCAACGCCGGGGCAGGA	4800
Query	4813	CTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGTGCCACCGGGGAGCGCCCTCCGGCA	4872
Sbjct	4801	CTGGCAGGGGGAAGCCAGGCATCTACAGATTGTGTGCCACCGGGGAGCGCCCTCCGGCA	4860
Query	4873	TGTTGACTCGTCGGTCTCTGTGAGTGCTATGACCGGGCTGTGCTTGGTATGAGCTCA	4932
Sbjct	4861	TGTTGACTCGTCGGTCTCTGTGAGTGCTATGACCGGGCTGTGCTTGGTATGAGCTCA	4920
Query	4933	CGCCCCCGGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGT	4992
Sbjct	4921	CGCCCCCGGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGT	4980
Query	4993	GCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCCTCATATAGATGCC	5052
Sbjct	4981	GCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCCTCATATAGATGCC	5040
Query	5053	ACTTTTTATCCAGACAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAG	5112
Sbjct	5041	ACTTTCTATCCAGACAAGCAGAGCGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAG	5100
Query	5113	CCACCGTGTGGCTAGGGCTCAAGCCCCCCCCCATCGTGGGACCAGATGTGGAAGTGT	5172
Sbjct	5101	CCACCGTGTGGCTAGGGCTCAAGCCCCCCCCCATCGTGGGACCAGATGTGGAAGTGT	5160
Query	5173	TGATCGCGCTTAAACCACTTCATGGGCCAACACCCCTGCTATACAGACTGGGGCTG	5232
Sbjct	5161	TGATCGCGCTTAAACCACTTCATGGGCCAACACCCCTGCTATACAGACTGGGGCTG	5220
Query	5233	TCAGAATGAAGTCACCTGAGCAGCAATCACCAAATACATCATGACATGCATGTCGG	5292
Sbjct	5221	TCAGAATGAAATCACCTGAGCAGCAATCACCAAATACATCATGACATGCATGTCGG	5280
Query	5293	CCGACCTGGAGTGTGTCACGACCACTGGGTGCTCGTTGGCGGGCTCTGGTGCTCTGG	5352

Sbjct 5281 ||| CCAACCCGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGCTCTGGCTGCTCTGG 5340
Query 5353 ||| CCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGA 5412
Sbjct 5341 ||| CCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATTGCTTGTCCGGGA 5400
Query 5413 ||| AGCCGGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTTCGATGAGATGGAAGAGT 5472
Sbjct 5401 ||| AGCCGGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTTCGATGAGATGGAAGAGT 5460
Query 5473 ||| GCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGA 5532
Sbjct 5461 ||| GCTCTCAGCACTTACCGTACATCGAACAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGG 5520
Query 5533 ||| AGGCCCTCGGCCCTCTCGAGACCCGGCTCCCGCCATCGAGAGGTTATCACCCCTGCTGTCC 5592
Sbjct 5521 ||| AGGCCCTCGGCCCTCTCGAGACCCGGCTCCCGCCAAGCAGAGGTTATCACCCCTGCTGTCC 5580
Query 5593 ||| AGACCAACTGGCAGAACTCGAGGCTCTTTGGGCGAAGCACATGTGGAATTTCAATCAGTG 5652
Sbjct 5581 ||| AGACCAACTGGCAGAACTCGAGGCTCTTTGGGCGAAGCACATGTGGAATTTCAATCAGTG 5640
Query 5653 ||| GGATACAATACTTGGCGGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTTCATTGA 5712
Sbjct 5641 ||| GGATACAATACTTGGCGGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTTCATTGA 5700
Query 5713 ||| TGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCACTGGCCAAACCCCTCTCTTCAACA 5772
Sbjct 5701 ||| TGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCACTAGCCAAACCCCTCTCTTCAACA 5760
Query 5773 ||| TATTgggggggTGGGTGGCTGCCAGCTCGCCGCCCGCGTGGCGCTACTGCCTTTGTGG 5832
Sbjct 5761 ||| TATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGTGGCGCTACCGCCCTTGTGG 5820
Query 5833 ||| GTGCTGGCTTAGCTGGCGCCGCATCGGCAGCGTTGGACTGGGGAAGGTCTCTGTTGGACA 5892
Sbjct 5821 ||| GCGCTGGCTTAGCTGGCGCCGCATCGGCAGCGTTGGACTGGGGAAGGTCTCTGTTGGACA 5880
Query 5893 ||| TTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTTAGTACATTCAAGATCATGAGCG 5952
Sbjct 5881 ||| TACTTGGGGGTATGGCGCGGGCGTGGCGGGAGCCCTTTGTGGATTCAAGATCATGAGCG 5940
Query 5953 ||| GTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCTCTCGCCTGGAG 6012
Sbjct 5941 ||| GTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCTCTCGCCTGGAG 6000
Query 6013 ||| CCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCGGCACGTTGGCCCGGGCGAGG 6072
Sbjct 6001 ||| CCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCGGCACGTTGGCCCGGGCGAGG 6060
Query 6073 ||| GGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCC 6132
Sbjct 6061 ||| GGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCC 6120
Query 6133 ||| CCACGCACTACGTGCCGGAGAGCGATGCAGCGCCCGCGTCACTGCCATACTCAGCAGCC 6192
Sbjct 6121 ||| CCACGCACTACGTGCCGGAGAGCGATGCAGCGCCCGCGTCACTGCCATACTCAGCAACC 6180
Query 6193 ||| TCACGTAAACCAAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGAGTGTACCACTC 6252
Sbjct 6181 ||| TCACGTAAACCAAGCTCCTGAGGCGACTGCATCAGTGGATAGGCTCGGAGTGTACCACTC 6240
Query 6253 ||| CATGCTCCGGTTCTTGTTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACT 6312
Sbjct 6241 ||| CATGCTCCGGTTCTTGTTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACT 6300
Query 6313 ||| TTAAGACCTGGCTGAAAGCCAAGTTCATGCCACAACCTGCCTGGGATTCCTTTGTGTCCT 6372
Sbjct 6301 ||| TTAAGACCTGGCTGAAAGCCAAGTTCATGCCACAACCTGCCTGGGATTCCTTTGTGTCCT 6360
Query 6373 ||| GCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGTGGCACT 6432
Sbjct 6361 ||| GCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGTGGCACT 6420
Query 6433 ||| GTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGA 6492

Sbjct 6421 | | | | | GTGGGGCTGAGATCACTGGACATGTCAAAACGGGACGATGAGGATCGTCGGTCTTAGGA 6480
Query 6493 | | | | | CCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTACGGCTACACCACGGGCCCTGTGA 6552
Sbjct 6481 | | | | | CCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTACGGCTACACCACGGGCCCTGTGA 6540
Query 6553 | | | | | CTCCCCCTTCCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTCGACAGGAATACG 6612
Sbjct 6541 | | | | | CTCCCCCTTCCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTCGACAGGAATACG 6600
Query 6613 | | | | | TGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACAATCTTA 6672
Sbjct 6601 | | | | | TGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGCATGACTACTGACAATCTTA 6660
Query 6673 | | | | | AATGCCGTGCGCAGATCCCATCGCCGAATTTTTCACAGAATTGACGGGTGCGCCTAC 6732
Sbjct 6661 | | | | | AATGCCGTGCGCAGATCCCATCGCCGAATTTTTCACAGAATTGACGGGTGCGCCTAC 6720
Query 6733 | | | | | ACAGGTTTGCGCCCTTGCAGCCCTTGCTGCGGGAGGAGTATCATTACAGATAGGAC 6792
Sbjct 6721 | | | | | ATAGGTTTGCGCCCTTGCAGCCCTTGCTGCGGGAGGAGTATCATTACAGATAGGAC 6780
Query 6793 | | | | | TCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCAGGCCGGAACCGGACGTAGCCGTGT 6852
Sbjct 6781 | | | | | TCCACGAGTACCCGGTGGGGTTCGCAACTACCTTGCAGGCCGGAACCGGACGTAGCCGTGT 6840
Query 6853 | | | | | TGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAGTTGG 6912
Sbjct 6841 | | | | | TGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAGTTGG 6900
Query 6913 | | | | | CGAGAGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTC 6972
Sbjct 6901 | | | | | CGAGAGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTC 6960
Query 6973 | | | | | TCAAGGCAACTTGCACCGCAACCATGACTCCCTTGACGCCGAGCTCATAGAGGCTAACC 7032
Sbjct 6961 | | | | | TCAAGGCAACTTGCACCGCAACCATGACTCCCTTGACGCCGAGCTCATAGAGGCTAACC 7020
Query 7033 | | | | | TCTGTGGAGGACAGGAGATGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGG 7092
Sbjct 7021 | | | | | TCTGTGGAGGACAGGAGATGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGG 7080
Query 7093 | | | | | TGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTAC 7152
Sbjct 7081 | | | | | TGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTAC 7140
Query 7153 | | | | | CTGCAGAAATCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCTGTGGGCGCGGC 7212
Sbjct 7141 | | | | | CCGCAGAAATCTGCGGAAGTCTCAGAGATTGCGCCGGGCCCTGCCCTTTGGGCGCGGC 7200
Query 7213 | | | | | CGGACTACACCCCCCGCTAGTAGAGACGTGAAAAAGCCTGACTACGAACCACTGTGG 7272
Sbjct 7201 | | | | | CGGACTACACCCCCCGCTAATAGAGACGTGAAAAGAGCCTGACTACGAACCACTGTGG 7260
Query 7273 | | | | | TCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCTCTGTGCCTCCGCTCGGAAAAAGC 7332
Sbjct 7261 | | | | | TCCATGGCTGCCCGTTACCACCTCCACGGTCCCTCTCTGTGCCTCCGCTCGGAAAAAGC 7320
Query 7333 | | | | | GTACGGTGGTCTTACCAGATCAACCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAA 7392
Sbjct 7321 | | | | | GTACGGTGGTCTTACCAGATCAACCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAA 7380
Query 7393 | | | | | GTTTTGGCAGCTCCTCAACTCCGGCATTACGGGCGCAATACGACAACATCCTCTGAGC 7452
Sbjct 7381 | | | | | GTTTTGGCAGCTCCTCAACTCCGGCATTACGGGCGCAATACGACAACATCCTCTGAGC 7440
Query 7453 | | | | | CCGCCCCCTTCTGGCTGCGGCGGAGCTCCGACGTTGAGTCTTATTCTTCCATGCGGCGG 7512
Sbjct 7441 | | | | | CCGCCCCCTTCTGGCTGCGGCGGAGCTCCGACGTTGAGTCTTATTCTTCCATGCGGCGG 7500
Query 7513 | | | | | TGGAGGGGGAGCTGGGGATCCGGATCTCAGCGACGGGTATGGTCGACGGTCAGTAGTG 7572
Sbjct 7501 | | | | | TGGAGGGGGAGCTGGGGACCGGATTTACGCGACGGGTATGGTCGACGGTCAGTAGTG 7560
Query 7573 | | | | | GGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGACAGCGGCACTCG 7632

Sbjct	7561	GGGCCGACACGGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCGGACAGGCCACTCG	7620
Query	7633	TCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCAGTGAAGCAACTCGTTGC	7692
Sbjct	7621	TCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCAGTGAAGCAACTCGTTGC	7680
Query	7693	TACGCCATCAACAATCTGGTGTATTCCACCACTTCACGCAGTGTCTGCCAAAGGCAGAGA	7752
Sbjct	7681	TACGCCATCAACAATCTGGTGTATTCCACCACTTCACGCAGTGTCTGCCAAAGGCAGAGA	7740
Query	7753	AAGTCACATTTCAGACACTGCAAGTTCTGGACAGCCATTACAGGACGTGCTCAAGGAGG	7812
Sbjct	7741	AAGTCACATTTCAGACACTGCAAGTTCTGGACAGCCATTACAGGACGTGCTCAAGGAGG	7800
Query	7813	TCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTCAGCC	7872
Sbjct	7801	TCAAAGCAGCGCGCTCAAGAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTCAGCC	7860
Query	7873	TGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCC	7932
Sbjct	7861	TGACGCCCCACATTAGCCAAATCTAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCC	7920
Query	7933	ATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTG	7992
Sbjct	7921	ATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTG	7980
Query	7993	TAAACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTTCAGCCTGAGA	8052
Sbjct	7981	TAAACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTTCAGCCTGAAA	8040
Query	8053	AGGGGGGTCTGAAGCAGCTCGTCTCATCGTGTTCGCCGACCTGGGCGTGGCGGTGTGCG	8112
Sbjct	8041	AGGGGGGTCTGAAGCAGCTCGTCTCATCGTGTTCGCCGACCTGGGCGTGGCGGTGTGCG	8100
Query	8113	AGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAAGCTCCT	8172
Sbjct	8101	AGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAAGCTCCT	8160
Query	8173	ACGGATTCCAATACTACACAGGACAGCGGTTGAATTCCCTGTGCAAGCGTGAAGTCCA	8232
Sbjct	8161	ACGGATTCCAATACTACACAGGACAGCGGTTGAATTCCCTGTGCAAGCGTGAAGTCCA	8220
Query	8233	AGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGA	8292
Sbjct	8221	AGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGA	8280
Query	8293	CGGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCG	8352
Sbjct	8281	CGGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCG	8340
Query	8353	TGGCCATCAAGTCCCTCACTGAGAGGCTTATGTTGGGGGCCCTCTTACCAATTCAAGGG	8412
Sbjct	8341	TGGCCATAAAGTCCCTCACTGAGAGGCTTATGTTGGGGGCCCTCTTACCAATTCAAGGG	8400
Query	8413	GGGAAAACCTGCGGCTACCGCAGGTGCCGCGGAGCGCGTACTGACAACCTAGCTGTGGTA	8472
Sbjct	8401	GGGAAAACCTGCGGCTACCGCAGGTGCCGCGGAGCGCGTACTGACAACCTAGCTGTGGTA	8460
Query	8473	ACACCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCCGAGGGCTCCAGGACT	8532
Sbjct	8461	ACACCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCCGAGGGCTCCAGGACC	8520
Query	8533	GCACCATGCTCGTGTGTGGCGACGACTTAGTCTGTTATCTGTGAAGTGCAGGGGTCCAGG	8592
Sbjct	8521	GCACCATGCTCGTGTGTGGCGACGACTTAGTCTGTTATCTGTGAAGTGCAGGGGTCCAGG	8580
Query	8593	AGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCGG	8652
Sbjct	8581	AGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCGG	8640
Query	8653	GGGAGCCCCACAAACAGAAATACGACTTGGAGCTTATAACATCATGCTCCTCCACAGTGT	8712
Sbjct	8641	GGGAGCCCCACAAACAGAAATACGACTTGGAGCTTATAACATCATGCTCCTCCACAGTGT	8700
Query	8713	CAGTCGCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCTTCAACCC	8772

Query	1	GCCAGCCCTGATGGGGGCGACATCCACCATGAATCACTCCCCTGTGAGGAACACTCTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACATCCACCATGAATCACTCCCCTGTGAGGAACACTCTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCATGGCGTTAGTATGAGTGTCTGTGACGCTTCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCATGGCGTTAGTATGAGTGTCTGTGACGCTTCAGGA	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCTTCTTGGATAAACCGCTCAATGCCTGGAGATTTGGGCTGCCCCC	240
Sbjct	181	GACGACCGGGTCTTCTTGGATAAACCGCTCAATGCCTGGAGATTTGGGCTGCCCCC	240
Query	241	GCAAGACTGCTAGCCAGTAGTGTGGGTGCGCAAGGCCCTTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCAGTAGTGTGGGTGCGCAAGGCCCTTGGTACTGCCTGATAGG	300

Query	301	GTGCTTGCAGTGCCTCGGGAGGTTCTCGTAGACCGTGCACCATGAGCAGCAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGTGCCTCGGGAGGTTCTCGTAGACCGTGCACCATGAGCAGCAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCTGGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCTGGGGTG	420
Query	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCACACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCACACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Query	541	AGGCACGTTCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTTCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA	720
Query	721	CGTGGCGCTTCGCGGACCTCATGGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGCG	780
Sbjct	721	CGTGGCGCTTCGCGGACCTCATGGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGGCGCATGGCGTCCGGGTTCTGGGAAGCGCGGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGGCGCATGGCGTCCGGGTTCTGGGAAGCGCGGTGAACATGCAACAG	840
Query	841	GGAACCTTCCIGGTTGCTCTTTCTCTATCTTCTTCTGGGCCCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACCTTCCIGGTTGCTCTTTCTCTATCTTCTTCTGGGCCCTGCTCTCTTGGCTGACTG	900
Query	901	TGCCCGCTTACGCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTACGCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAATCGAGTATTGTGTACGAGGCGGCCGATGCCATCTCTGCACACTCCGGGTTGTG	1020
Sbjct	961	GCCCTAATCGAGTATTGTGTACGAGGCGGCCGATGCCATCTCTGCACACTCCGGGTTGTG	1020
Query	1021	TCCTTTCGCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCTTTCGCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACTCCCCACAACGAGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Sbjct	1081	CCACCAGGGATGGCAAACTCCCCGCGACGAGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Query	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TCGGCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCT	1260
Query	1261	CTATCTATCCCGGCATATAACGGGTTCATCGCATGGCATGGGATATGATGATGAACGTGT	1320
Sbjct	1261	CTATCTATCCCGGTCATATAACGGGTTCACGATGGCATGGGATATGATGATGAACGTGT	1320
Query	1321	CCCCTACGCGAGCGTTGGTGGTAGCTCAGCTGCTCCGATCCCAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGAGCGGTTGGTAATGGCTCAGCTGCTCCGATCCCAAGCCATCTTGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCTATGGTGGGA	1440

Query	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTATTATGGCCGCGTCGACGCGGAAACCCAGC	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTATTATGGCCGCGTCGACGCGGAAACCCAGC	1500
Query	1501	TCACCGGGGAAATGCCGGCCGCACCAACGGCTGGG-CTTGTGGTCT-CCTTACACCAGG	1558
Sbjct	1501	TCACCGGGGAAATGCCGGCCGCACCTGTGTCGGAATCT-GTTAG-CTTCCTCGCACCAGG	1558
Query	1559	CGCCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCAGATCAATAGCACGGC	1618
Sbjct	1559	CGCCAAGCAGAAATGCCAGCTGATCAACACCAACGGCAGTTGGCAGCTCAATAGCACGGC	1618
Query	1619	CTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAA	1678
Sbjct	1619	CCTGAACCTGCAATGATAGCCTTAACACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAA	1678
Query	1679	ATTCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCAGCGCTTACCGATTITGC	1738
Sbjct	1679	GTTCAACTCTTCAGGCTGCCCTGAGAGGCTAGCCAGCTGCCAGCCCCCTTACCGATTITGA	1738
Query	1739	CAGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTG	1798
Sbjct	1739	CAGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCGACGACGCGCCCTACTG	1798
Query	1799	CTGGCACTACCCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGT	1858
Sbjct	1799	CTGGCACTACCCCCCAAAACCTTGCAGTATTGTGCCCGCAAAGAGTGTGTGTGTGGCCCGGT	1858
Query	1859	ATATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTGGGCGCGCCTAC	1918
Sbjct	1859	ATATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTGGGCGCGCCTAC	1918
Query	1919	CTACAGCTGGGGTGCAAAATGATACGGAATGCTTCGTCTTAAACAACACGAGCCACCGCT	1978
Sbjct	1919	CTACAGCTGGGGTGAAACGATACGGAACCTTTTCGTCTTAAACAATACGAGCCACCGCT	1978
Query	1979	GGGCAATTGGTTCGGTTGACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGC	2038
Sbjct	1979	GGGCAATTGGTTCGGTTGACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGC	2038
Query	2039	GCCCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTT	2098
Sbjct	2039	GCCTCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTGCACCTGCCCCACTGATTGCTT	2098
Query	2099	CGCAAAACATCCGGAAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Sbjct	2099	CGCAAGCATCCGGAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Query	2159	GTGCATGGTGACATACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT	2218
Sbjct	2159	GTGCCTGGTGACATACCCGTATAGGCTTTGGCAATTATCCTTGTACCATCAACTACACCAT	2218
Query	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCAGAGGCTGGAAGCGGGCTGCAACTG	2278
Sbjct	2219	ATTTAAATTAGGATGTACGTGGGAGGGGTCGAGCAGAGGCTGGAAGCTGCTGCAACTG	2278
Query	2279	GACGCGGGGGCAACGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCCGTTGCT	2338
Sbjct	2279	GACGCGGGGGCAACGTTGCGATCTGGAAGATAGGGACAGGTCGAGCTCAGCCCGTTACT	2338
Query	2339	GCTGTCCACACACAGTGGCAGGTCCTTCCGTGTTCTTACGAGCCTGCCAGCCTTGTG	2398
Sbjct	2339	GCTGACCACTACACAGTGGCAGGTCCTCCGTGTTCTTACCAACCTGCCAGCCTTGTG	2398
Query	2399	CACCGGCTCATCCACCTCCACGAGAATTTGTGGACGTGCAGTACTTGTACGGGGTAGG	2458
Sbjct	2399	CACCGGCTCATCCACCTCCACGAGAATTGTGGACGTGCAGTACTTGTACGGGGTAGG	2458
Query	2459	GTCAAGCATCGCGTCTCGGGCCATTAAAGTGGGAGTACGTGTTTCTCTGTCTTCTGCT	2518
Sbjct	2459	GTCAAGCATCGCGTCTCGGGCCATTAAAGTGGGAGTACGTGTTTCTCTGTCTTCTGCT	2518
Query	2519	TGCAGACGCGCGCTGTCTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Sbjct	2519	TGCAGACGCGCGGCTGTCTCTGCTTGTGGATGATGCTACTCATATCCCAAGCGGAGGC	2578

Query	2579	GGCTTTGGAGAACTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Sbjct	2579	GGCTTTGGAGAACTCGTAATACTTAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Query	2639	GTCCCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGGAGC	2698
Sbjct	2639	ATCCTTTCCTCGTGTCTTCTGCTTTGTCATGGTATCTGAAGGGTAAGTGGGTGCCCGGAGC	2698
Query	2699	GGTCTACGCCCTCTACGGGATGTGGCCTCTCTCTGCTCTCTGCTGGCGTTGCCTCAGCG	2758
Sbjct	2699	GGTCTACACCTTCTACGGGATGTGGCCTCTCTCTGCTCTCTGTTGGCGTTGCCCGGAGC	2758
Query	2759	GGCATAACGACTGGACACGGAGGTGGCCGCGTCTGTGGCGCGTGTGTCTTGTCGGGTT	2818
Sbjct	2759	GGCGTACGCGCTGGACACGGAGGTGGCCGCGTCTGTGGCGCGTGTGTCTTGTCGGGTT	2818
Query	2819	AATGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Sbjct	2819	GATGGCGCTGACTCTGTGACCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Query	2879	TCAGTATTTTCTGACACAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCCCCCTCAACGT	2938
Sbjct	2879	TCAGTATTTTCTGACACAGAGTGAAGCGCAACTGCACGTGTGGATCCCCCTCAACGT	2938
Query	2939	CCGGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCTGGTAT	2997
Sbjct	2939	CCGAGGGGGGGCGGACGCCGTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTAT	2997
Query	2998	TTGACATCACAACTACTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTT	3057
Sbjct	2998	TGTCATCACCAAAATGTGCTGGCCGCTCTTCGGACCCCTTTGGATTCTTCAAGCCAGCT	3057
Query	3058	TGCTTAAAGTCCCTACTTCTGTGCGCGTTCAAGGCCCTTCTCCGGATCTGCCGCTAGCCG	3117
Sbjct	3058	TGCTTAAAGTACCTACTTTGTGCGCGTCCAAGGCCCTTCTCCGGTCTGCGCGTTAGCCG	3117
Query	3118	GGAAGATAGCCGGAGGTCAATTACGTGCAATGGCCATCATCAAGTTAGGGGCGCTTACTG	3177
Sbjct	3118	GGAAGATGGCCGGAGGCCATTACGTGCAATGGTCACTTAAGTTAGGGGCGCTTACTG	3177
Query	3178	GCACCTATGTGTATAACCATCTACCCCTCTTCGAGACTGGGCGCACACGGCTGCGAG	3237
Sbjct	3178	GCACCTATGTTTATAACCACTCACTCCTCTTCGGGACTGGGCGCACACGGCTGCGAG	3237
Query	3238	ATCTGGCCGTGGCTGTGGAAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGT	3297
Sbjct	3238	ATCTGGCCGTGGCTGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGT	3297
Query	3298	GGGGGGCAGATACCGCCGCTGCGGTGACATCATCAACGGCTTGGCCGTCTTGCCCGTA	3357
Sbjct	3298	GGGGGGCAGATACCGCCGCTGCGGTGACATCATCAACGGCTTGGCTGTTTCGCCCGCA	3357
Query	3358	GGGGCCAGGAGATACTGCTTGGGCCAGCCGAGGGAATGGTCTCCAAGGGGTGGAGGTTGC	3417
Sbjct	3358	GGGGCCGGGAGATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGC	3417
Query	3418	TGGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCA	3477
Sbjct	3418	TGGCGCCCATCACGGCGTACGCCAGCAGACAGGGGCCCTCTAGGGTGTATAATCACCA	3477
Query	3478	GCCTGACTTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCTGTCAACTGCTA	3537
Sbjct	3478	GCCTAACTTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTG	3537
Query	3538	CCCAAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACGGGGCGG	3597
Sbjct	3538	CCCAAACCTTCTTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACACGGGGCGG	3597
Query	3598	GAACGAGGACCATCGCATCACCAAGGGTCTGTATCCAGATGTATACCAATGTGGACC	3657
Sbjct	3598	GAACGAGGACCATCGCGTCACCAAGGGTCTGTATCCAGATGTATACCAATGTAGACC	3657
Query	3658	AAGACCTTGTGGGCTGGCCGCTCTCAAGGTTCCCGCTCATTTGACACCTGTACCTGCG	3717
Sbjct	3658	AAGACCTTGTGGGCTGGCCGCTCCGCAAGGTAGCCGCTCATTTGACACCTGTACCTTGG	3717

Query	3718	GCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCTCGCGCCGCGAG	3777
Sbjct	3718	GCTCCTCGGACCTTTACCTGGTAACGAGGCACGCCGATGTCATTCCTCGCGCCGCGGG	3777
Query	3778	GTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGGCCAATTCTCTACTGAAAGGCTCTCGG	3837
Sbjct	3778	GTGATAGCAGGGGCAGCCTGCTGTCGCCCCGGGCCAATTCTCTACTGAAAGGCTCTCGG	3837
Query	3838	GGGGTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCCTATTACGGGCCCGCGTGTGCA	3897
Sbjct	3838	GGGGTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGTATATTAGGGCCGCGTGTGCA	3897
Query	3898	CCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGA	3957
Sbjct	3898	CCCGTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGA	3957
Query	3958	GATCCCCGGTGTTCACGGACAACCTCTCCACCAAGCAGTCCCCAGAGCTTCCAGGTGG	4017
Sbjct	3958	GGTCCCCGGTGTTCACGGATAACTCTCTCCACCAAGTAGTCCCCAGAGCTTCCAGGTGG	4017
Query	4018	CCCACTGCAATGCTCCACACGGCAGCGGTAAAGAGCACAAGTCCCGGCTGCGTACGCAG	4077
Sbjct	4018	CTCACTCCATGCTCCACACGGCAGCGGCAAAAGCACAAGTCCCGGCTGCATATGCAG	4077
Query	4078	CCCAGGGCTACAAGGTGTTGGTGTCTCAACCCCTCTGTTGTCTGCAACGCTGGGCTTTGGTG	4137
Sbjct	4078	CTCAGGGCTATAAGGTGCTAGTACTCAACCCCTCTGTTGTCTGCAACATGCGGCTTTGGTG	4137
Query	4138	CTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTA	4197
Sbjct	4138	CTTACATGTCCAAGGCTCATGGGATCGATCCTAACATCAGGACCGGGGTGAGAACAAATTA	4197
Query	4198	CACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCTTGCACAGCGGGGTGCT	4257
Sbjct	4198	CACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCTTGCACAGCGGGGTGCT	4257
Query	4258	CAGGAGGTGCTTATGACATAATAATTGTGACAGAGTGCCACTCCACGGATGCCACATCCA	4317
Sbjct	4258	CGGGGGGCGCTTATGACATAATAATTGTGACAGAGTGCCACTCCACGGATGCCACATCCA	4317
Query	4318	TCTTGGGCATCGGCATGTCCTTGACCAAGCAGAGACTGCGGGGGCAGAGCTGGTTGTGC	4377
Sbjct	4318	TCTTGGGCATCGGCATGTCCTTGACCAAGCAGAGACTGCGGGGGCAGAGCTGGTTGTGC	4377
Query	4378	TCGCCACTGTACCCCTCCGGGCTCCGTCACTGTGTCCATCTTAACATCGAGGAGGTTG	4437
Sbjct	4378	TCGCCACCGCCACCCCTCCGGGCTCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTG	4437
Query	4438	CTCTGTCCACCAACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCA	4497
Sbjct	4438	CTCTGTCCACCAACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCA	4497
Query	4498	AGGGGGGGAAGACATCTCATCTTCTGCCACTCAAGAAGAAGTGCGACGAGCTCGCCGCGA	4557
Sbjct	4498	AGGGGGGGAAGACATCTCATCTTCTGTCTTCAAGAAGAAGTGCGACGAATCGCCGCGAA	4557
Query	4558	AGCTGGTCGATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCA	4617
Sbjct	4558	AGCTGGTCGATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCA	4617
Query	4618	TCCGACACGCGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGCTGGCTTTACCG	4677
Sbjct	4618	TCCGACACGCGCGATGTTGTCTGTCGTGTCGACACCGATGCCCTCATGACCGGCTATACCG	4677
Query	4678	GCAGCTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCC	4737
Sbjct	4678	GCAGCTTCGACTCGGTGATAGACTGCAATACGTGTGTCAACAGACAGTCGATTTCAGCC	4737
Query	4738	TTGACCCTACCTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTC	4797
Sbjct	4738	TTGACCCTACCTTCAACATTGAGACAATCACGCTCCCCAGGATGCTGTCTCCGCACTC	4797
Query	4798	AACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGG	4857
Sbjct	4798	AACGTCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTGTGGCACCGGGGG	4857

Query	4858	AGCGCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGCTGTG	4917
Sbjct	4858	AGCGCCCTCTGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGAGGCTGTG	4917
Query	4918	CTTGATATGAGCTCAGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC	4977
Sbjct	4918	CTTGATATGAGCTCAGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC	4977
Query	4978	CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCA	5037
Sbjct	4978	CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAGGCTCA	5037
Query	5038	CTCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAAGCTTCCCTTACC	5097
Sbjct	5038	CTCATATAGATGCCCACTTTCTATCCAGACAAAGCAGAGTGGGGAGAAGCTTCCCTTACC	5097
Query	5098	TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCTGTGGGACC	5157
Sbjct	5098	TGGTAGCGTACCAAGCCACTGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCTGTGGGACC	5157
Query	5158	AGATGTGGAAGTGTGTTGATCCGCTTAAACCCACCCCTCCATGGGCGCAACCCCTGCTAT	5217
Sbjct	5158	AGATGTGGAAGTGTGTTGATTCGCTCAAGCCACCCCTCCATGGGCGCAACCCCTGCTAT	5217
Query	5218	ACAGACTGGGCGCTGTTTCAAGATGAAGTACCCCTGACGCACCCCAATCACCATAATACATCA	5277
Sbjct	5218	ACAGACTGGGCGCTGTTTCAAGATGAAGTACCCCTGACGCACCCCAATCACCATAATACATCA	5277
Query	5278	TGACATGCAATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGGG	5337
Sbjct	5278	TGACATGCAATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGGG	5337
Query	5338	TCTGGGCTGCTCTGGCCGCGTATTGCCCTGTCAACAGGCTGCGTGGTCAATGTTGGGAGGA	5397
Sbjct	5338	TCTGGGCTGCTTTGGCCGCGTATTGCCCTGTCAACAGGCTGCGTGGTCAATGTTGGGAGGA	5397
Query	5398	TCGTCTTGTCCGGGAAGCCGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTTCG	5457
Sbjct	5398	TCGTCTTGTCCGGGAAGCCGCAATCATACCTGACAGGGAGGTTCTTACCAGGAGTTTCG	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCGG	5517
Query	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCTCCCGCATCGAGAGGTTA	5577
Sbjct	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCTCCCGCATCGAGAGGTTA	5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTTCTTTGGGCGAAGCAGATGT	5637
Sbjct	5578	TCGCCCTGCTGTCCAGACCAACTGGCAAACTCGAGACCTTCTGGGCGAAGCAGATATGT	5637
Query	5638	GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCCG	5697
Sbjct	5638	GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTGTCAACGCTGCTGGTAACCCCG	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACACGCCCACTAACCACCTGGCCAAA	5757
Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCTGTACACGCCCACTAACCACCTAGGCCAA	5757
Query	5758	CCCTCCTCTTCAACATAATTGGGGGGTGGGGTGGCTGCCAGCTCGCCGCCCGGTTGCCG	5817
Sbjct	5758	CCCTCCTCTTCAACATAATTGGGGGGTGGGGTGGCTGCCAGCTCGCCGCCCGGTTGCCG	5817
Query	5818	CTACTGCCCTTGTGGGTGCTGGCTAGCTGGCGCCGCCATCGGACAGCTTGGAGTGGGGA	5877
Sbjct	5818	CTACTGCCCTTGTGGGCGCTGGCTAGCTGGCGCCGCCATCGGACAGTGTGGAGTGGGGA	5877
Query	5878	AGGTCTCTGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCTCTATAGACATCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938	TCAAGATCATGAGCGTGAGGTCCCTCCACGGAGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938	TCAAGATCATGAGCGTGAGGTCCCTCCACGGAGACCTGGTCAATCTACTGCCCGCCA	5997

Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGC	6057
Sbjct	5998	TCCTCTCGCCCCGAGGCCCTCGTAGTCGGCGTGGTCTGTGACGAATACTGCGCCGGCAGC	6057
Query	6058	TTGGCCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCCTTCGCCCTCCGGG	6117
Sbjct	6058	TTGGCCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTGATAGCCCTTCGCCCTCCGGG	6117
Query	6118	GGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGACGCCGCCCGCTCACTG	6177
Sbjct	6118	GGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGACAGCTGCCCGCTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCACTGATGATAAGCT	6237
Query	6238	CGGAGTGTACCACATCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	CGGAGTGTACCACATCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAAGCTCATGCCAACATGCCTGGGA	6357
Sbjct	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCAACATGCCTGGGA	6357
Query	6358	TTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGC	6417
Sbjct	6358	TTCCCTTTGTGTCCTGCCAGCGCGGGTATAAGGGGGTCTGGCGAGGGGACGGCATATGC	6417
Query	6418	ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Sbjct	6418	ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Query	6478	TCGTCCGTCCTAGGACCTGCAGGAACATGTGGAGTGGGAGCTTCCCCATTAAACGCCTACA	6537
Sbjct	6478	TCGTCCGTCCTAGGACCTGCAGGAACATGTGGAGTGGGAGCTTCCCCATTAAAGCCTACA	6537
Query	6538	CCACGGGCCCCGTGACTCCCTTCTCGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGT	6597
Sbjct	6538	CCACGGGCCCCGTGACTCCCTTCTCGCGCCGAACATACAGTTCGCGCTGTGGAGGGTGT	6597
Query	6598	CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATG	6656
Sbjct	6598	CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTGA-CGGGTATG	6656
Query	6657	ACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGGAATTTTTCACAGAATTG	6716
Sbjct	6657	ACTACTGACAATCTTAAATGCCCGTGCCAGGTCCTCATCGCCGGAATTTTTCACAGAATTG	6716
Query	6717	GACGGGGTGCGCCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGTCTGCGGAGGAGGTA	6776
Sbjct	6717	GACGGGGTGCGCCCTACATAGTTTTCGCCGCCCTTGCAAGCCCTTGTCTGCGGAGGAGGTA	6776
Query	6777	TCATTACAGATAGGACTCCACGAGTACCCGGTGGGGTTCGAATTACCTTTCGAGAGCCGAA	6836
Sbjct	6777	TCATTATAGATAGGACTCCACGAATACCCGGTAGGGTTCGAATTACCTTTCGAGAGCCGAA	6836
Query	6837	CCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGGG	6896
Sbjct	6837	CCGGACGTGGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGGG	6896
Query	6897	GCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCA	6955
Sbjct	6897	GCCGGGCGGAGGTTGGCGAG-GGGATCACCCCTCTGTGGCCAGCTCCTCGGCTAGCCA	6955
Query	6956	GCTGTCGCTCCATCTCTCAAGGCAACTTGCACCGCAACCATGACTCCCTGACGCCGA	7015
Sbjct	6956	GCTATCGCTCCATCTCTCAAGGCAACTTGCACCGCAACCATGACTCCCTGATGCTGA	7015
Query	7016	GCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGA	7075
Sbjct	7016	GCTCATAGAAGCCAACCTCCTATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGA	7075
Query	7076	GTCAGAGAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7135
Sbjct	7076	GTCAGAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGA	7135

Query	7136	GCGGGAGGTCTCCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTGCGCCGGGCCCT	7195
Sbjct	7136	GCGGGAGATCTCCGTACCCGCAGAAATTCGCGGAAGTCTCGGAGATTGCGCCAGGCCCT	7195
Query	7196	GCCCGTCTGGGCGCGCGGACTACAACCCCCCGTAGTAGAGACGTGGAAAAAGCCTGA	7255
Sbjct	7196	GCCCGTTTGGGCGCGCGGACTATAACCCCCCGTAGTGGAGACGTGGAAAAAGCCGA	7255
Query	7256	CTACGAACCACCTGTGGTCCATGGCTGCCCGTACCACCTCCACGGTCCCCCTCTGTGCC	7315
Sbjct	7256	CTACGAACCACCTGTGGTCCATGGCTGTCGCTTCCACCTCCAAGTCCCCCTCTGTGCC	7315
Query	7316	TCCGCTTCGGAAGAAAGCGTACGGTGGTCTCACCAGATCAACCTATCTACTGCCTTGGC	7375
Sbjct	7316	TCCGCTTCGGAAGAAAGCGGACGGTGGTCTCCTACTGAATCAACCTATCTACTGCCTTGGC	7375
Query	7376	CGAGCTTGCCACCAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7435
Sbjct	7376	CGAGCTTGCCATCAAAGCTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7435
Query	7436	GACAACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTA	7495
Sbjct	7436	GACAACATCCTCTGAGCCCGCCCTTCTGGCTGCCCGCGGACTCCGACGCTGAGTCCTA	7495
Query	7496	TTCTTCCATGCCCCCGTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCA	7555
Sbjct	7496	TTCTTCCATGCCCCCGTGGAGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCA	7555
Query	7556	GTCGACGCTCAGTAGTGGGGCC-GACACGGAAGATGTCGTGTGCTGCTCAATGCTTATT	7614
Sbjct	7556	GTCACCGCTCAGTAGTAGGGCCAG-CGCGGAGGATGTCGTGTGCTGCTCAATGCTTACT	7614
Query	7615	CTGGACAGGCGCACTGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCATGCTCAAC	7674
Sbjct	7615	CTTGACAGGCGCACTGTCACCCCGTGCCTGCGGAAGAACAGAACTGCCATCAATG	7674
Query	7675	CACCTGAGCAACTCGTTGCTACGCCATCACAATCT-GGTGTAATCCACCACTTACGCACT	7733
Sbjct	7675	CACCTGAGCAACTCGTTGCTACGTACCACAA-CTTGTGTAATCCACCACTTACGCACT	7733
Query	7734	GCTTGCCAAAGGCAGAAAGTACATTTGACAGACTGCAAGTTCTGGACAGCCATTAC	7793
Sbjct	7734	GCTTGCCAAAGGCAGAAAGTACATTTGACAGACTGCAAGTTCTGGACAGCCATTAC	7793
Query	7794	CAGGACGTGCTCAAAGGAGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCC	7853
Sbjct	7794	CAGGACGTGCTCAAAGGAGTTAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCC	7853
Query	7854	GTAGAGGAAGCTTGACAGCTGACGCCCCACATTGACGCAAAATCCAAGTTTGGCTATGGG	7913
Sbjct	7854	GTAGAGGAAGCTTGACAGCTGACGCCCCACACTGACGCAAAATCCAAGTTTGGTTATGGG	7913
Query	7914	GCAAAAGACGCTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAA	7973
Sbjct	7914	GCAAAAGACGCTCCGTTGCCATGCCAGAAAGGCCGTAAACCACATCAACTCCGTGTGGAAA	7973
Query	7974	GACCTTCTGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAAGACGAGGTT	8033
Sbjct	7974	GACCTTCTGGAAGACAAATGTAAACCAATAGACACTACCATCATGGCTAAGAACGAGGTT	8033
Query	8034	TTCCTGCTTCAGCTTGAGAAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTCCCCGAC	8093
Sbjct	8034	TTCCTGCTTCAGCTTGAGAAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTCCCCGAT	8093
Query	8094	CTGGGCGTGCCTGTGTCGAGAAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTG	8153
Sbjct	8094	CTGGGCGTGCCTGTGTCGAGAAAGATGGCTTTGTACGACGTGGTTACCAAGCTCCCCCTG	8153
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTC	8213
Sbjct	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTC	8213
Query	8214	GTGCAAGCGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8214	GTGCAAGCGTGAAGTCCAAGAAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTT	8273

Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGAGGAGGCAATTTACCAATTGTTGTGAC	8333
Sbjct	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGAGGAGGCAATTTACCAATTGTTGTGAC	8333
Query	8334	CTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8334	CTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGCGTA	8453
Sbjct	8394	CCTCTTACCAATTCAAGGGGGGAGAACTGCGGCTATCGCAGGTGCCGCGAGCGCGTA	8453
Query	8454	CTGACAACCTAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCGGGCGAGCTGTCGA	8513
Sbjct	8454	CTGACAACCTAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCGGGCGAGCTGTCGA	8513
Query	8514	GCCGAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Sbjct	8514	GCCGAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Query	8574	GAAAGTGGCGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACC	8633
Sbjct	8574	GAAAGCGGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACC	8633
Query	8634	AGGTACTCCGccccccccggggccccccACAACCAGAAATACGACTTGGAGCTTATAACA	8693
Sbjct	8634	AGGTACTCCGCCCCCCCCGGGGACCCCCACAACCAGAAATACGACTTGGAGCTTATAACA	8693
Query	8694	TCATGCTCCTCCAACGTGTCAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTT	8753
Sbjct	8694	TCATGCTCCTCCAACGTGTCAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTT	8753
Query	8754	ACCCGTGACCCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACATCCA	8813
Sbjct	8754	ACCCGTGACCCCTACAACCCCCCTCGCGAGAGCTGCGTGGGAGACAGCAAGACACATCCA	8813
Query	8814	GTCAATTCTGGGTAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATA	8873
Sbjct	8814	GTCAATTCTGGGTAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATA	8873
Query	8874	CTGATGACCCATTTCCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8933
Sbjct	8874	CTGATGACCCATTTCCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTGAT	8933
Query	8934	TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCAATCAA	8993
Sbjct	8934	TGCGAGATCTACGGGCGCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCAATCAA	8993
Query	8994	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG	9053
Sbjct	8994	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG	9053
Query	9054	GTGGCCGCGATGCCCTCAGAAAACTTGGGGTCCCGCCCTTGGCAGCTTGAGACACCGGGCC	9113
Sbjct	9054	GTGGCCGCGATGCCCTCAGAAAACTTGGGGTACCGCCCTTGGCAGCTTGAGACACCGGGCC	9113
Query	9114	CGGAGCGTCGCGCTAGGCTTCTGTCCAGAGGAGGCGAGGCTGCCATATGTGGCAAGTAC	9173
Sbjct	9114	CGGAGCGTCGCGCTAGGCTTCTGTCCAGAGGAGGCGAGGCTGCCATATGTGGCAAGTAC	9173
Query	9174	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCAATCAATAGCGGCGCTGGCCGG	9233
Sbjct	9174	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCAATCAATAGCGGCGCTGGCCAG	9233
Query	9234	CTGAGCTTGTCCGGTTGGTTACGGCTGGCTACAGCGGGGAGACATTATCACAGCGTG	9293
Sbjct	9234	CTGAGCTTGTCCGGCTGGTTACGGCTGGCTACAGCGGGGAGACATTATCACAGCGTG	9293
Query	9294	TCTCATGCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCTGCTCGCTGCAGGGGTAGGC	9353
Sbjct	9294	TCTCATGCCGGCCCCGCTGGTTTTGGTTTTGCCTACTCTGCTGCTGTCAGGGGTAGGC	9353
Query	9354	ATCTACCTCTCTCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATT	9413
Sbjct	9354	ATCTACCTCTCTCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTATAGCCATT	9413

9/8/2009

Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCTCGTGTGCTCTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACCTTCTCGTGTGCTCTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGGCTGACTG	900
Query	901	TGCCCGCTTACGCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTACGCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAAGCTCAGATATTGTGTACGAGGCGGGCGATGCCATCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAAGCTCAGATATTGTGTACGAGGCGGGCGATGCCATCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCCTTCCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCAACGGTGG	1080
Sbjct	1021	TCCCTTGCCTTCCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCAACGGTGG	1080
Query	1081	CACACGAGGACGCAAACTCCCCACAACGACGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Sbjct	1081	CACACGAGGATGCAAACTCCCCGACGACGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Query	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTATGCGGGTCTGCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGAAGACTGCAATTGTT	1260
Sbjct	1201	TCGGCCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGAAGGTGCAATTGCT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCAATCGATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCAACCGATGGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCCACGCGAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380
Sbjct	1321	CCCCACGAGCGGCTTGGTAATGGCTCAGCTGCTCCGGATCCCAAGCCATCTTGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTGCTATTGGCCGGCGTCGACGCGGAAACCCAGC	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTGCTATTGGCCGGCGTCGACGCGGAAACCCAGC	1500
Query	1501	TACCGGGGGAATGCGCGGCGACCAACGCGTGGGCTTGTGGTCTCCTTACACAGGGG	1560
Sbjct	1501	TACCGGGGGAATGCGCGGCGACACTGTCTGGAATTGTGAGCTCCTCGACACAGGGG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT	1620
Sbjct	1561	CCAAGCAGAACGTCAGCTGATCAACACCAACGGCAGTTGGCACTCAATAGCAGCGGCC	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATGCAATGATAGCCTCAACACCGGCTGGTTGGCAGGGCTTTCTATCAACACAAGT	1680
Query	1681	TCAACTCTTACAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCTTACCGATTTTGGCC	1740
Sbjct	1681	TCAACTCTTACAGGCTGTCTGAGAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACC	1740
Query	1741	AGGGCTGGGGTCTCTATCAGTTATGCCAACGGAAGCGGCTTGCAGAACGCGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCCGACAGCGCCCTACTGCT	1800
Query	1801	GGCACTACCTTCAAGACCTTGTGGCATTGTGCCCGGAAGAGCGTGTGTGGCCGGGTAT	1860
Sbjct	1801	GGCACTACCCCCAAACCTTGCAGTATGTGCCCGGAAGAGTGTGTGTGGTCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCGGCGGCTGGTGGTGGGAACGACGAGGTGCGGCGCGCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCAGCCCGTGGTGGTGGGAACGACGAGGTGCGGCGCGCCCACT	1920

Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGAAAATGATACGGACGCTTTCGTCTTAAACAATACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CTCCTTGTGTATCGGAGGGGGCGGGCAACAACACCTTGCATGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACCTCTCGGTGGCGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGAGCGCCACATACCTCTCGGTGGCGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTGCAGCTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACCATAT	2220
Sbjct	2161	GCCTGGTGCAGCTACCCGTATAGGCTTTGGCATATCCTTGTACCATCAACTACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGCCTGCAACTGGA	2280
Sbjct	2221	TAAAAATCAGGATGTACGTGGGAGGGGTGGAACAGGCTGGAAGTCGCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGTTGCGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCTTGCAGCCTTGTCCA	2400
Sbjct	2341	TGACCACTACACAGTGGCAGGTCTTCCGTGTTCTTTCACAACTTACAGCCTTGTCCA	2400
Query	2401	CGGGCTCATCCACCTTCCACAGAACATTGTGGAGCTGCAGTACTTGTACGGGTAGGGT	2460
Sbjct	2401	CGGGCTCATCCACCTTCCACAGAACATTGTGGAGCTGCAGTACTTGTACGGGTGGGGT	2460
Query	2461	CAAGCATCGCGTCTTGGGCCATTAAATGGGAGTACGTCGTTCTCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTTGGGCCATTAAATGGGAGTACGTCGTTCTCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTGCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGCGG	2580
Sbjct	2521	CAGACGCGCGCTGCTGCTCCTGCTTGTGGATGATGCTACTCATATCCCAAGCGGAGCGG	2580
Query	2581	CTTTGGAGAACTTCGTAATACTCAATGCAGCATCCCTGGCGGGAGCGACGGTCTTGTTG	2640
Sbjct	2581	CTTTGGAGAACTTCGTAATACTTAATGCAGCATCCCTGGCGGGAGCGACGGTCTTGTTG	2640
Query	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGTAAGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATTGAAGGTAAGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCTCTCTCTGCTCCTGCTGGCGTGGCTCAGCGGG	2760
Sbjct	2701	TCTACACCTCTACGGGATGTGGCTCTCTCTGCTCCTGTTGGCGTGGCCCAGCGGG	2760
Query	2761	CATACGCACCTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGGGTTAA	2820
Sbjct	2761	CGTACGCGCTGGACACGGAGGTGGCCGCTCGTGTGGCGGTGTGTTCTCGTGGGTGA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGACCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTGAAGCGCAACTGCACGTGTGGATTCCCCCTCAACGTCC	2940
Query	2941	gaggggggCGCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCTGGTATTT	2999
Sbjct	2941	GAGGGGGGCGCGACGCCGTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTT	2999
Query	3000	GACATCACCAAACTACTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Sbjct	3000	GACATCACCAAAATGCTGCTGGCCGCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059

Query	3060	CTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCCTTCCTCGGATCTGCGCGCTAGCGCGG	3119
Sbjct	3060	CTTAAAGTACCCTACTTTGTGCGCGTCCAAGGCCCTTCCTCGGTTCTGCGCGTTAGCGCGG	3119
Query	3120	AAGAT - AGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3120	AAGATGATC - GGAGGCCATTACGTGCAAAATGGTTCATCATTAAAGTTAGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAACCATCTCACCCTCTCTCGAGACTGGGCGCACAACGGCTTGCAGAGA	3238
Sbjct	3179	CACCTATGTGTTATAACCATCTCCTCTCTCGGGACTGGGCGCACAACGGCTTGCAGAGA	3238
Query	3239	TCTGGCCGTGGCTGTGGAACCAAGTCGCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	TCTGGCCGTGGCTGTAGAGCCAGTCGCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Query	3299	GGGGGCAGATACCGCCGCGTGCCTGACATCATCAACGGCTTGCCTGTTCTGCCCGTAG	3358
Sbjct	3299	GGGGGCAGATACCGCCGCGTGCCTGACATCATCAACGGCTTGCCTGTTCTGCCCGTAG	3358
Query	3359	GGGCCAGGAGATACTGCTTGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359	GGGCCAGGAGATACTGCTGCGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419	GGCGCCCATACGCGCTACGCCAGCAGACGAGAGGCTCTTAGGTTGTATAATCACCAG	3478
Sbjct	3419	GGCGCCCATACGCGCTACGCCAGCAGACGAGAGGCTCTTAGGTTGTATAATCACCAG	3478
Query	3479	CCTGACTGGCCGGGACAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCACTGCTAC	3538
Sbjct	3479	CCTAAGTGGCCGGGACAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCACTGCTAC	3538
Query	3539	CAAACCTTCTCGGCAACGTGCATCAATGGGGTATGCTGGACTGCTACACGGGGCCGG	3598
Sbjct	3539	CAAACCTTCTCGGCAACGTGCATCAATGGGGTATGCTGGACTGCTACACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATACCCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599	AACGAGGACCATCGCATACCCAAGGGTCTGTATCCAGATGTATACCAATGTAGACCA	3658
Query	3659	AGACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGG	3718
Sbjct	3659	AGACCTTGTGGGCTGGCCCGCTCTCGCAAGGTAGCCGCTCATTGACACCTGCATTTGCGG	3718
Query	3719	CTCCTCGGACCTTTACCTGGTACAGAGGCACGCCGATGTCAATCCGTCGCGCGGCGAGG	3778
Sbjct	3719	CTCCTCGGACCTTTACCTGGTACAGAGGCACGCCGATGTCAATCCGTCGCGCGGCGGG	3778
Query	3779	TGATAGCAGGGGTAGCTGCTTTCGCCCCGGGCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGGTAGCTGCTGCTCGCCCCGGGCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Query	3839	GGGTCGCTGTTGTGCCCCGCGGACACGCCGTGGGCTATTAGGGCCGCGGTGTGTCAC	3898
Sbjct	3839	GGGTCGCTGTTGTGCCCCGCGGACACGCCGTGGGCTATTAGGGCCGCGGTGTGTCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGACAAACATGAG	3958
Sbjct	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGCAACATGAG	3958
Query	3959	ATCCCGGTGTTACGGACAACCTCCTCTCCACAGCAGTGCCTCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	GTCCCGGTGTTACGGATAACTCCTCTCCACAGTAGTGCCTCAGAGCTTCCAGGTGGC	4018
Query	4019	CCACTTGCATGCTCCACCGGACGCGGTAAAGACCAAGGTCCTGGCTGCGTACCGAGC	4078
Sbjct	4019	TCACTTCATGCTCCACAGGACGCGGAAAAGACCAAGGTCCTGGCTGCATATGACAGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	TCAGGGCTATAAGGTGCTAGTACTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGC	4138
Query	4139	TTACATGTCCAAGGCCATGGGGTTGATCCTAATACAGGACCGGGGTGAGAACAAATAC	4198
Sbjct	4139	TTACATGTCCAAGGCTCATGGGATGATCCTAATACAGGACCGGGGTGAGAACAAATAC	4198

Query	4199	CACTGGCAGCCCATCACGTACTCCACCTACGGCAAGTTCCTTGGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CACTGGCAGCCCATCACGTACTCCACCTACGGCAAGTTCCTTGGCCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	GGGGGGGCGCTTATGACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACCTGTCTTGTACCAAGCAGAGACTGCGGGGGCGAGACTGGTGTGTCT	4378
Sbjct	4319	CTTGGGCATCGGCACCTGTCTTGTACCAAGCAGAGACTGCGGGGGCGAGACTGGTGTGTCT	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACCTGTGTCCCATCTTAACATCGAGGAGGTTGC	4438
Sbjct	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACCTGTGTCCCATCTTAACATCGAGGAGGTTGC	4438
Query	4439	TCGTGCCACCAACGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Sbjct	4439	TCGTGCCACCAACGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAA	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAA	4558
Sbjct	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAACTCGCCGCGAA	4558
Query	4559	GCTGGTCGCAATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGCTGTCTAT	4618
Sbjct	4559	GCTGGTCGCAATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGCTGTCTAT	4618
Query	4619	CCCGACCAGCGCGATGTTGTGCTGTCGTCGACCGGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCCGACCAGCGCGATGTTGTGCTGTCGTCGACCGGATGCTCTCATGACTGGCTTTACCGG	4678
Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCT	4738
Sbjct	4679	CGACTTCGACTCTGTGATAGACTGCAATACGTGTGTCACTCAGACAGTCGATTTACGCT	4738
Query	4739	TGACCCCTACCTTTACCATTTGAGACAACACGCTCCCCAGGATGCTGCTCCAGGACTCA	4798
Sbjct	4739	TGACCCCTACCTTTACCATTTGAGACAATACGCTCCCCAGGATGCTGCTCCCGACTCA	4798
Query	4799	ACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACC GGGGGA	4858
Sbjct	4799	ACGTCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACC GGGGGA	4858
Query	4859	GCGCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Sbjct	4859	GCGCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Query	4919	TTGGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC	4978
Sbjct	4919	TTGGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC	4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGCCCTCAC	5038
Sbjct	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCCTCAC	5038
Query	5039	TCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTTCTTACCT	5098
Sbjct	5039	TCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTTCTTACCT	5098
Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTTCCCCCATCGTGGGACCA	5158
Sbjct	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTTCCCCCATCGTGGGACCA	5158
Query	5159	GATGTGGAAGTGTGTTGATCCGCCTTAAACCCACCTCCATGGGCGCAACACCCCTGCTATA	5218
Sbjct	5159	GATGTGGAAGTGTGTTGATTCGCCTCAAGCCACCTCCATGGGCGCAACACCCCTGCTATA	5218
Query	5219	CAGACTGGGCGCTGTTTCAAGTGAAGTCAACCTGACGACCCCAATACCAAATACATCAT	5278
Sbjct	5219	CAGACTGGGCGCTGTTTCAAGTGAATCAACCTGACGACCCCAATACCAAATACATCAT	5278
Query	5279	GACATGCATGTGCGGCACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Sbjct	5279	GACATGCATGTGCGGCACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338

Query	5339	CCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Sbjct	5339	CCTGGCTGCTTTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Query	5399	CGTCTTTGCGGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACC-AGGAGTTTCG	5457
Sbjct	5399	CGTCTTTGCGGGGAAGCCGGCAATCATACCTGACAGGAGAGTCCCTTACCAGAG-AGTTTCG	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCGG	5517
Query	5518	AGCAGTTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCAGCATGCAGAGGTTA	5577
Sbjct	5518	AGCAGTTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCAGTCAGCAGAGGTTA	5577
Query	5578	TCACCCCTGCTGTCCAGACCACTGGCAGAACTCGAGTCTTTTGGGCGAAGCATATGT	5637
Sbjct	5578	TGCGCCCTGCTGTCCAGACCACTGGCAGAACTCGAGACTTCTGGGCGAAGCATATGT	5637
Query	5638	GGAAATTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCCG	5697
Sbjct	5638	GGAACTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCCG	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACCTGGCCAAA	5757
Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCTGTACCAGCCCACTAACCACCTAGCCAAA	5757
Query	5758	CCCTCCTCTTCAACATATTGGGGGGTGGGTGGTGGCCAGCTCGCGCCCCCGGTGCCG	5817
Sbjct	5758	CCCTCCTCTTCAACATATTGGGGGGTGGGTGGTGGCCAGCTCGCGCCCCCGGTGCCG	5817
Query	5818	CTACTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCGCGCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	CTACTGCCCTTTGTGGGCGTGGCTTAGCTGGCGCGCGCATCGGCAGTGTGGACTGGGGA	5877
Query	5878	AGGTCTCGTGGACATTTCTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCTCATAGACATCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCCCTCCACGAGGAGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCCCTCCACGAGGAGACCTGGTCAATCTACTGCCCGCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGC	6057
Sbjct	5998	TCCTCTCGCCCCGAGCCCTCGTAGTCGGTGTGGTCTGTGAGCAATACTGCGCCGGCAGC	6057
Query	6058	TTGGCCCGGGCGAGGGGGCAGTGCATGGATGAACCGGCTTAATAGCCTTCGCTTCCGGG	6117
Sbjct	6058	TTGGCCCGGGCGAGGGGGCAGTGCATGGATGAACCGGCTGATAGCCTTCGCTTCCGGG	6117
Query	6118	GGAAACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGCAGCCGCCCGCTCACTG	6177
Sbjct	6118	GGAAACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGCAGCTGCCCGCGTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCACTGATAGCT	6237
Query	6238	CGGAGTGTACCACATCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTTGGATATGCG	6297
Sbjct	6238	CGGAGTGTACCACATCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTTGGATATGCG	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAAGCTCATGCCCAACTGCCTGGGA	6357
Sbjct	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGA	6357
Query	6358	TTCCCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATG	6416
Sbjct	6358	TTCCCTTTGTGTCTGCCAGCGCGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATG	6416
Query	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476

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Query 6477 ATCGTCGGTCTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCATTAACGCCTAC 6536
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Sbjct 6477 ATCGTCGGTCTCTAGGACCTGCAGGAACATGTGGAGTGGGACCTTCCCATTAATGCCTAC 6536

Query 6537 ACCACGGGGCCCTGTACTCCCTTCTCGCGCGAATATAGTTCGCGCTGTGGAGGGTG 6596
          |||
Sbjct 6537 ACCACGGGGCCCTGTACTCCCTTCTCGCGCGAATATACAGTTCGCGCTATGGAGGGTG 6596

Query 6597 TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTAT 6655
          |||
Sbjct 6597 TCTGCAGAGGAATATGTGGAGATAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTAT 6655

Query 6656 GACTACTGACAATCTTAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT 6715
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Sbjct 6716 GGACGGGGTGCCTTACATAGGTTTGCGCCCTTGAAGCCCTTGCTGCGGGAGGAGGT 6775

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Sbjct 6776 ATCATTACAGAGTAGGACTCCACGAATACCCGGTAGGGTGCAATTACCTGCGAGCCGGA 6835

Query 6836 ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC 6895
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Sbjct 6836 ACCGGACGTGCGCGTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC 6895

Query 6896 GGCGGGGAGAAGGTTGGCGAGAGG-TCACCCCTTCTATGGCCAGCTCCTCGGTAGCC 6954
          |||
Sbjct 6896 GGCGGGGCGAAGGTTGGCGAG-GGGATCACCCCTCTGTGGCCAGCTCCTCGGTAGCC 6954

Query 6955 AGCTGTCGCTCCATCTCTCAAGGCAACTTGACCGCCCAACCATGACTCCCTGAGCGCG 7014
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Sbjct 6955 AGCTATCCGCTCCATCTCTCAAGGCAACTTGACCGCTAACCATGACTCCCTGATGCTG 7014

Query 7015 AGCTCATAGAGGCTAACCTCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG 7074
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Sbjct 7015 AGCTCATAGAGGCCAACCTCTATGAGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG 7074

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Query 7195 TGCCCGCTTGGGGCGGGCGGACTACAACCCCGCTAGTAGAGACGTGGAAAAAGCCCTG 7254
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Query 7255 ACTACGAACCACTGTGGTCCATGGCTGCCCGCTACCACTCCACGGTCCCTCTGTGC 7314
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Sbjct 7255 ACTACGAACCACTGTGGTCCATGGCTGCCCGTTCACTCCAAAGTCCCTCTGTGC 7314

Query 7315 CTCGCCCTCGGAAAAAGCGTACGTTGGTCTTCAACCAATCAACCTATCTACTGCCTTGG 7374
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Sbjct 7315 CTCGCCCTCGGAGAGCGGACGGTGGTCTCACTGAATCAACCTATCTACTGCCTTGG 7374

Query 7375 CCGAGCTTGGCACCAGAAAGTTTGGCAGCTCCTCAACTTCGGCAITACGGGCGACAATA 7434
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Sbjct 7375 CCGAGCTCGGCACCAGAAGCTTGGCAGCTCCTCAACTTCGGCAITACGGGCGACAATA 7434

Query 7435 CGACACATCTCTGAGCCCGCCCTTCTGGCTGCGGCGGAGCTCCGACGTTGAGTCTCT 7494
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Sbjct 7435 CGACACATCTCTGAGCCCGCCCTTCTGGCTGCCCGCGGAGCTCCGACGCTGAGTCTCT 7494

Query 7495 ATTCCTTCATGCGCCCCCTTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAT 7554
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Query 7555 GGTCGACGGTCAGTAGTGGGGCCGACGGAAGATGTCGTGTCTGCTCAATGTCCTTATT 7614
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Query	7615	CCTGGACAGGCGCACTCGTCACCCCGTGC	7674
Sbjct	7615	CTTGACAGGCGCACTCGTCACCCCGTGC	7674
Query	7675	CACTGAGCAACTCGTTGCTACGCCATCACA	7734
Sbjct	7675	CACTAAGCAACTCGTTGCTACGTACCACA	7734
Query	7735	CTTGCCAAAGGCAGAGAAGTCAATTTGAC	7794
Sbjct	7735	CTTGCCAAAGGCAGAGAAGTCAATTTGAC	7794
Query	7795	AGGACGTGCTCAAGGAGGTCAAAGCAGCG	7854
Sbjct	7795	AGGACGTACTCAAGGAGGTTAAAGCAGCG	7854
Query	7855	TAGAGGAAGCTTGACGCTGACGCCCCCAC	7914
Sbjct	7855	TAGAGGAAGCTTGACGCTGACGCCCCCAC	7914
Query	7915	CAAAAGACGTCCTGTGCCATGCCAGAAAG	7974
Sbjct	7915	CAAAAGACGTCCTGTGCCATGCCAGAAAG	7974
Query	7975	ACCTTCTGGAAGACAGTGTAAACCAATAG	8034
Sbjct	7975	ACCTTCTGGAAGACAAATGTAAACCAAT	8034
Query	8035	CTGCGTTACGCTGAGAAAGGGGGTCGTA	8094
Sbjct	8035	CTGCGTTACGCTGAGAAAGGGGGTCGTA	8094
Query	8095	TGGCGTGC	8153
Sbjct	8095	TGGCGTGC	8153
Query	8154	GCGTGATGGGAAGCTCCTACGGATTCCA	8213
Sbjct	8154	GCGTGATGGGAAGCTCCTACGGATTCCA	8213
Query	8214	GTGCAAGCGTGAAGTCCAAGAAAGACCC	8273
Sbjct	8214	GTGCAAGCGTGAAGTCCAAGAAAGACCC	8273
Query	8274	GACTCCACAGTCACTGAGAGCGACATCC	8333
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Query	8334	CTGACCCCCAAGCCCGGTGGCCATCAAG	8393
Sbjct	8334	CTGACCCCCAAGCCCGGTGGCCATCAAG	8393
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAAC	8453
Sbjct	8394	CCTCTTACCAATTCAAGGGGGGAAAAC	8453
Query	8454	CTGACAACAGTGTGGTAAACCCCTCACT	8513
Sbjct	8454	CTGACAACAGTGTGGTAAACCCCTCACT	8513
Query	8514	GCCGAGGGGCTCAGGACTGCACCATGCT	8573
Sbjct	8514	GCCGAGGGGCTCAGGACTGCACCATGCT	8573
Query	8574	GAAAGTGC	8633
Sbjct	8574	GAAAGTGC	8633
Query	8634	AGGTACTCCG	8693
Sbjct	8634	AGGTACTCCG	8693
Query	8694	TCATGCTCCTCAACGTGTCAGTGC	8753
Sbjct	8694	TCATGCTCCTCAACGTGTCAGTGC	8753

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Query 8754 ACCCGTGACCCCTACAACCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACTCCA 8813
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Sbjct 8754 ACCCGTGACCCCTACAACCCCTCGCGAGAGCTGCGTGGGAGACAGCAAGACACTCCA 8813
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Query 8814 GTCAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATA 8873
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Query 8934 TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAA 8993
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Query 9054 GTGGCCGCGATGCCCTCAGAAAACTTGGGGTCCCGCCCTTGGGAGCTTGGAGACACGGGGC 9113
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Query 9114 CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGCAGGGCTGCCATATGTGGCAAGTAC 9173
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Query 9354 ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCT 9401
      |||
Sbjct 9354 ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCT 9401
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>dbj|BD295096.1| NANBV DIAGNOSTICS: POLYNUCLEOTIDES USEFUL FOR SCREENING FOR HEPATITIS C VIRUS
Length=9401

Score = 1.520e+04 bits (8231), Expect = 0.0
Identities = 9018/9408 (95%), Gaps = 14/9408 (0%)
Strand=Plus/Plus

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Query 1 GCCAGCCCCCTGATGGGGCGGACACTCCACCATGAATCACTCCCTGTGAGGAACACTGT 60
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Sbjct 1 GCCAGCCCCCTGATGGGGCGGACACTCCACCATGAATCACTCCCTGTGAGGAACACTGT 60
      |||
Query 61 TCTTCACGCAGAAAGCGCTAGCCATGGCGTTAGTATGAGTGTGCTGAGCGCTCCAGGAC 120
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Sbjct 61 TCTTCACGCAGAAAGCGCTAGCCATGGCGTTAGTATGAGTGTGCTGAGCGCTCCAGGAC 120
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Query 121 cccccc TCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
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Sbjct 121 CCCCCCTCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
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Query 181 GACGACCGGGTCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC 240
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Sbjct 181 GACGACCGGGTCTTTCTTGGATCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC 240
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Sbjct 241 GCAAGACTGTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTGTGGTACTGCCTGATAGG 300
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Query 301 GTGCTTGCAGAGTGCCCGGGAGGTCTCGTAGACCGGTGCACCATGAGCAGCAATCCTAAAC 360
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Sbjct	301	GTGCTTGCAGTGCCTCCGGAGGTCCTAGACCGTGACCATGAGCAGCAATCCTAAAC	360
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Sbjct	361	CTCAAGAAAAACAAACGTAACACCAACCGTCGCCACAGGACGTCAGTTCCTCCGGGGT	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTCGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTCGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGAGCTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGAGCTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCCTCGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGCT	660
Sbjct	601	GCAATGAGGGTTCGCGGGTGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCGGCTAGGTTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCGGCTAGGTTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA	720
Query	721	CGTGGCGCTTCGCCGACCTCATATGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGGG	780
Sbjct	721	CGTGGCGCTTCGCCGACCTCATATGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGGG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACTTCTCGGTGCTCTTCTCTATCTCCTTCTGGGCCCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACTTCTCGGTGCTCTTCTCTATCTCCTTCTGGGCCCTGCTCTCTTGGCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAATCGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAATCGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CACACAGGGACGCGCAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Sbjct	1081	CACACAGGGATGCGCAACCTCCCCGACGACGAGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Query	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTATGCGGGTCTGCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TCGGCCCACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGGTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCATATAACGGGTCTACGATGGCATGGGATATGATGATGAACGTGT	1320
Sbjct	1261	CTATCTATCCCGGCATATAACGGGTACCGCATGGCATGGGATATGATGATGAACGTGT	1320
Query	1321	CCCCATACGCGAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAACAGCCATCATGGACA	1380
Sbjct	1321	CCCCATACGCGAGCGTTGGTAAATGGCTCAGCTGCTCCGGATCCCAACAGCCATCTGGACA	1380
Query	1381	TGATCGCTGGTGTCTACTGGGGAGTCTGGCGGGCATAGCGTATTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTACTGGGGAGTCTGGCGGGCATAGCGTATTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGTCTGCTCTATTTGCCGCGCTGACGCGGAAACCCACG	1500

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Sbjct 1441 ACTGGGCGAAGGTCTCTGGTAGTGTCTGCTATTATGCCGGCGTCAGACGGGAAACCCAGC 1500
Query 1501 TCACCGGGGGAATGCGCGCCGACACCGGCTGGGCTTGTGTGCTTCCTTACACAGGGCG 1560
Sbjct 1501 TCACCGGGGGAATGCGCGCCGACACTGTGTCTGGATTGTGTAGCTTCCTCGCACCAGGGCG 1560
Query 1561 CCAAGCAGAACTCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT 1620
Sbjct 1561 CCAAGCAGAACTGCCAGCTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGGCC 1620
Query 1621 TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACAAAAAT 1680
Sbjct 1621 TGAACCTGCAATGATAGCTCAACACCGGCTGGTTGGCAGGGCTTTCTATCACCACAAAT 1680
Query 1681 TCAACTCTTCAGGCTGTCTCTGAGAGGTGGCCAGCTGCCGACGCTTACCGATTTTGCC 1740
Sbjct 1681 TCACCTCTTCAGGCTGTCTCTGAGAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACC 1740
Query 1741 AGGGCTGGGGTCTCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTTACTGCT 1800
Sbjct 1741 AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCGACAGCGCCCTTACTGCT 1800
Query 1801 GGCACCTACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGTAT 1860
Sbjct 1801 GGCACCTACCCCCAAAACCTTGCAGTATTGTGCCCGCAAGAGTGTGTGTGGTCCGGTAT 1860
Query 1861 ATTGCTTCACCTCCAGCCCGGTGGTGGTGGGAACGACCGACAGGTTCGGGCGCGCCTACCT 1920
Sbjct 1861 ATTGCTTCACCTCCAGCCCGGTGGTGGTGGGAACGACCGACAGGTTCGGGCGCGCCACCT 1920
Query 1921 ACAGCTGGGGTGCAAAATGATACGGATGTCTTCGCTCTTAACAACACGAGGCCACCGCTGG 1980
Sbjct 1921 ACAGCTGGGGTGAAAATGATACGGACGCTCTTCGCTCTTAACAATACGAGGCCACCGCTGG 1980
Query 1981 GCAATTGGTTCGGTGTGACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC 2040
Sbjct 1981 GCAATTGGTTCGGTGTGACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC 2040
Query 2041 CCCCCTGTGTCTATCGGAGGGGTGGGCAACAACACCTTGTCTGCCCCACTGATTGCTTCC 2100
Sbjct 2041 CTCCTTGTGTCTATCGGAGGGGCGGGCAACAACACCTTGCATGCCCCACTGATTGCTTCC 2100
Query 2101 GCAAACATCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT 2160
Sbjct 2101 GCAAGCATCCGGACGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGT 2160
Query 2161 GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT 2220
Sbjct 2161 GCCTGGTCGACTACCCGATATAGGCTTTGGCATTATCCTTGTACCATCAACTACACCATAT 2220
Query 2221 TCAAGTCAGGATGTACGTGGGAGGGGTGAGACACAGGCTGGAAGCGGCTGCAACTGGA 2280
Sbjct 2221 TTAAGTCAGGATGTACGTGGGAGGGGTGGAACACAGGCTGGAAGCTGCCTGCAACTGGA 2280
Query 2281 CGCGGGGCGAAGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGGCCGTTGCTGC 2340
Sbjct 2281 CGCGGGGCGAAGCTTGCATCTGGAAGACAGGGACAGGTCCGAGCTCAGGCCGTTACTGC 2340
Query 2341 GTCTCACACACAGTGGCAGGTCCTTCCGTGTTCTTTACAGACCTTGCAGCCTTGTCCA 2400
Sbjct 2341 TGACCACTACACAGTGGCAGGTCCTTCCGTGTTCTTTACCAACCTTACAGCCTTGTCCA 2400
Query 2401 CGGGCTCATCCACTCCACAGAACATTGTGGAGCTGACAGTACTGTGACGGGTAGGGT 2460
Sbjct 2401 CGGGCTCATCACTCCACAGAACATTGTGGAGCTGACAGTACTGTGACGGGTAGGGT 2460
Query 2461 CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCTTCTGCTTG 2520
Sbjct 2461 CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCTTCTGCTTG 2520
Query 2521 CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG 2580
Sbjct 2521 CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGG 2580
Query 2581 CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGAGCAGCGGCTTGTGT 2640
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Sbjct	2581	CTTTGGAGAACCTCGTAATACTTAATGCAGCATCCCTGGCCGGGACGCACGGCTCTGTAT	2640
Query	2641	CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGAGACGG	2700
Sbjct	2641	CCTTCTCGTGTCTTCTGCTTTGATATGTTTGAAGGGTAGTGGGTGCCCGAGACGG	2700
Query	2701	TTACGCGCTCTACGGGATGTGGCTCTCCTCTGCTCTGCTGGCGTGTGCTACGCGGG	2760
Sbjct	2701	TTACACCTCTACGGGATGTGGCTCTCCTCTGCTCTGCTGGCGTGTGCTTACGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTGCTTGTGCGGGTTAA	2820
Sbjct	2761	CGTACGCGCTGGACACGGAGGTGGCCGCTCGTGTGGCGGTGTGCTTCTGCTGGGGTTGA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGACCATATTACAAGCGCTATATCAGCTGGTGTGCTTGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCAAGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAAGAGTGAAGCGCAACTGCACGTGTGGATTCCCAAGTCC	2940
Query	2941	gaggggggCGCGATGCCGTCATCTTACTCATGTGTG- TAGTACACCCGACCGTGGTATTT	2999
Sbjct	2941	GAGGGGGGCGCGACGCCGTCATCTTACTCATGTGTGCT- GTACACCCGACTCTGGTATTT	2999
Query	3000	GACATCACCAAACTACTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Sbjct	3000	GACATCACCAAAATGCTGCTGGCCGCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Query	3060	CTTAAAGTCCCTACTTTCGTGCGGTTCAAGGCCCTTCTCCGATCTGCGCGCTAGCGCGG	3119
Sbjct	3060	CTTAAAGTACCCTACTTTGTGCGGTTCAAGGCCCTTCTCCGATCTGCGCGTTAGCGCGG	3119
Query	3120	AAGAT- AGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3120	AAGATGATC- GGAGGCCATTACGTGCAAAATGTCATCATTAAGTTAGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAACCACTCTACCCCTCTTCGAGACTGGGCGCACAACGGCTTCGCGAGA	3238
Sbjct	3179	CACCTATGTTTATAACCACTCTACTCTCTTCGGGACTGGGCGCACAACGGCTTCGCGAGA	3238
Query	3239	TCTGGCGGTGGCTGTGGAACCACTGCTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	TCTGGCGGTGGCTGTAGAGCCAGTCGCTTCTCCCAATGGAGACCAAGCTCATCACGTG	3298
Query	3299	GGGGGCAGATACCGCCGCGTGGCGTGACATCATCAACGGCTTGGCCGCTCTGCGCCGTAG	3358
Sbjct	3299	GGGGGCAGATACCGCCGCGTGGCGTGACATCATCAACGGCTTGGCTGTCTCCGCCGCGAG	3358
Query	3359	GGGCGAGGAGATAGTGTCTGGGCGAGCCGAGGAATGGTCTCCAAGGGGTGGAGGTGTGT	3418
Sbjct	3359	GGGCGGAGGAGATAGTGTCTGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTGTGT	3418
Query	3419	GGCGCCCATACGGCGTACGCCAGCAGACGAGAGGCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419	GGCGCCCATACGGCGTACGCCAGCAGACAAGGGGCTCCTAGGGTGCTATAATCACCAG	3478
Query	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCACTGCTAC	3538
Sbjct	3479	CTTACTTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATGTGTCACTGCTGCT	3538
Query	3539	CCAACCTTCTCGGCAAGTGCATCAATGGGGTATGCTGACATGTCTACCAAGGGGCGGG	3598
Sbjct	3539	CCAACCTTCTCGGCAAGTGCATCAATGGGGTGTGCTGACATGTCTACCAAGGGGCGGG	3598
Query	3599	AACGAGGACCATCGCATACCCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599	AACGAGGACCATCGCGTACCCAAGGGTCTGTATCCAGATGTATACCAATGTAGACCA	3658
Query	3659	AGACCTTGTGGGCTGGCCGCTCCTCAAGGTTCGCGCTATTGACACCTGTACCTGCGG	3718
Sbjct	3659	AGACCTTGTGGGCTGGCCGCTTCGCAAGGTAGCGCTCATGTACACCTGACCTGCGG	3718
Query	3719	CTCCTCGGACCTTTACTGTGTACGAGGACGCGCGATGTCAATCCGCTGCGCCGGCGAGG	3778

Sbjct	3719	CTCTCGGACCTTTACCTGGTCACGAGGACGCGCATGTCAATCCCGTCGCCGCGCGGGG	3778
Query	3779	TGATAGCAGGGGTAGCTGCTTTCGCCCGCGGCCATTTCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGGCGAGCTGCTGTGCCCGCGGCCATTTCTACTTGAAAGGCTCCTCGGG	3838
Query	3839	GGGTCCGCTGTTGTGTCCCGCGGGGACAGCCCGTGGGCTATTACGGGCGCGGGTGTGCAC	3898
Sbjct	3839	GGGTCCGCTGTTGTGTCCCGCGGGGACAGCCCGTGGGCTATTATAGGCGCGGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899	CCGTGGAGTGGCTAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959	ATCCCCGGTGTTACGGACAAGTCCTCTCCACCAGCAGTGCCTCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	GTCCCCGGTGTTACGGATAAAGTCCTCTCCACCAGTAGTGCCCGAGAGCTTCCAGGTGGC	4018
Query	4019	CCACCTGCATGCTCCCACCGGAGCGGTAAGAGCACCAAGGTCCCGGCTCGGTACGCAGC	4078
Sbjct	4019	TCACCTTCATGCTCCACAGCGGAGCGCAAAAGCCACCAAGGTCCCGGCTCGATATGCAGC	4078
Query	4079	CCAGGGCTCAAGGTGTTGGTGCTCAACCCCTCTGTGTGCTGCAACACTGGGCTTTGGTGC	4138
Sbjct	4079	TCAGGGCTATAAGGTGCTAGTACTCAACCCCTCTGTGTGCTGCAACACTGGGCTTTGGTGC	4138
Query	4139	TTACATGTCCAAAGGCCATGGGGTGTGATCCATAATATCAGGACCGGGGTGAGAACAAATTAC	4198
Sbjct	4139	TTACATGTCCAAAGGCTCATGGGATCGATCCATAATATCAGGACCGGGGTGAGAACAAATTAC	4198
Query	4199	CACGTGCAGCCCCATCACGTACTCCACTACGGCAAGTTCTTGGCGAGCGCGGGTGCTC	4258
Sbjct	4199	CACGTGCAGCCCCATCACGTACTCCACTACGGCAAGTTCTTGGCGAGCGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATAAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	GGGGGGCGCTTATGACATAATAAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACTGTCTTTGACCAAGCAGAGACTCGGGGGCGAGACTGGTTGTGCT	4378
Sbjct	4319	CTTGGGCATCGGCACTGTCTTTGACCAAGCAGAGACTCGGGGGCGAGACTGGTTGTGCT	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCGGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	CGCCACCGCCACCCCTCCGGGCTCGGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Query	4439	TCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCTCTCGAGGTGATCAA	4498
Sbjct	4439	TCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCTCTCGAGGTGATCAA	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCCAGCAGCTCGCCGCGAA	4558
Sbjct	4499	GGGGGGGAGACATCTCATCTTCTGTGCATCAAAGAAGAAGTGCCAGCAGCTCGCCGCGAA	4558
Query	4559	GCTGGTGCAATTGGGCATCAATGCGTGCGGCTACTACCGCGGCTTGACGTGTCTGTCAT	4618
Sbjct	4559	GCTGGTGCAATTGGGCATCAATGCGTGCGGCTACTACCGCGGCTTGACGTGTCTGTCAT	4618
Query	4619	CCGACACGCGGCGCATGTTGTGCTGTGCTGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCGACACGCGGCGCATGTTGTGCTGTGCTGGAACCGATGCCCTCATGACCGGCTATACCGG	4678
Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCT	4738
Sbjct	4679	CGACTTCGACTCGGTGATAGACTGCAATACGTGTGTCACTCAGACAGTCGATTTACGCT	4738
Query	4739	TGACCTTACCTTTTACCATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCA	4798
Sbjct	4739	TGACCTTACCTTACCAATTGAGACAATACGCTCCCCAGGATGCTGTCTCCCGACTCA	4798
Query	4799	ACGCCGGGCGAGGACTGGCAGGGGGAAGCCAGCATCTATAGATTTTGTGGACCGGGGA	4858
Sbjct	4799	ACTGCGGGCGAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTTGTGGACCGGGGA	4858
Query	4859	GCGCCCTCCGGCATGTTTCGACTCGTCCGTCCTGTGTGAGTGCTATGACGCGGGCTGTGC	4918

Sbjct 4859 GCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCATGACGCAGGCTGTGC 4918
Query 4919 TTGGTATAGAGCTACGCGCCCGGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC 4978
Sbjct 4919 TTGGTATAGAGCTACGCGCCCGGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC 4978
Query 4979 GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCAC 5038
Sbjct 4979 GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAGGCTCAC 5038
Query 5039 TCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCTTACCT 5098
Sbjct 5039 TCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCTTACCT 5098
Query 5099 GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCA 5158
Sbjct 5099 GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCA 5158
Query 5159 GATGTGGAAGTGTGTTGATCCGCCCTTAAACCCACCCCTCCATGGGCCAACACCCCTGCTATA 5218
Sbjct 5159 GATGTGGAAGTGTGTTGATCCGCCCTAAGGCCACCCCTCCATGGGCCAACACCCCTGCTATA 5218
Query 5219 CAGACTGGGCGCTGTTTCAGAAATGAAGTCACCCCTGACGCACCCAAATCACCATAATACATCAT 5278
Sbjct 5219 CAGACTGGGCGCTGTTTCAGAAATGAAGTCACCCCTGACGCACCCAAATCACCATAATACATCAT 5278
Query 5279 GACATGCATGTGCGGCCGACCTGGAGGTCGTACAGGACACCTGGGTGCTCGTTGGCGGCGT 5338
Sbjct 5279 GACATGCATGTGCGGCCGACCTGGAGGTCGTACAGGACACCTGGGTGCTCGTTGGCGGCGT 5338
Query 5339 CCTGGCTGCTCTGGCGCGGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT 5398
Sbjct 5339 CCTGGCTGCTTTGGCGCGGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT 5398
Query 5399 CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTTACC-AGGAGTTCG 5457
Sbjct 5399 CGTCTTGTCCGGGAAGCCGGCAATCATACTGACAGGGAAGTCCCTACCAGAG-AGTTCG 5457
Query 5458 ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG 5517
Sbjct 5458 ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCGG 5517
Query 5518 AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCATCGAGAGGTTA 5577
Sbjct 5518 AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGTCAGGAGAGGTTA 5577
Query 5578 TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGT 5637
Sbjct 5578 TCGCCCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGACCTTCTGGGCGAAGCATATGT 5637
Query 5638 GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCCG 5697
Sbjct 5638 GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCCG 5697
Query 5698 CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCAGTGGCCAAA 5757
Sbjct 5698 CCATTGCTTCATTGATGGCTTTTACAGCTGCTGTACCAGCCCACTAACCAGTGGCCAAA 5757
Query 5758 CCTCCTCTTCAACATATTggggggTGGGTGGCTGCCAGCTCGCGCCCCCGGTGGCG 5817
Sbjct 5758 CCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCGCCCCCGGTGGCG 5817
Query 5818 CTACTGCCCTTGTGGGTGCTGGCTAGCTGGCGCCGCGCATCGGACGCTGGAGTGGGGA 5877
Sbjct 5818 CTACTGCCCTTGTGGGTGCTGGCTAGCTGGCGCCGCGCATCGGACGCTGGAGTGGGGA 5877
Query 5878 AGGTCTCTCGTGGACATTCTTGACAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT 5937
Sbjct 5878 AGGTCTCTCATAGACATCTCTTGACAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCAT 5937
Query 5938 TCAAGATCATGAGCGGTGAGGTCCCTCCACGAGGACCTGGTCAATCTGCTGCCCGCCA 5997
Sbjct 5938 TCAAGATCATGAGCGGTGAGGTCCCTCCACGAGGACCTGGTCAATCTACTGCCCGCCA 5997
Query 5998 TCCTCTCGCCCTGAGCGCCTTGTAGTCGGGTGGTCTCGCGACCAATCTGGCCCGCACG 6057
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Sbjct 5998 TCCTCTCGCCCGAGGCCCTCGTAGTCGGCGTGGTCTGTGCAGCAATATGCGCCGGCAGC 6057
Query 6058 TTGGCCCGGGCGAGGGGGCAGTGCATGGATGAACCGGCTAATAGCCITCGCCITCCCGGG 6117
Sbjct 6058 TTGGCCCGGGCGAGGGGGCAGTGCATGGATGAACCGGCTAATAGCCITCGCCITCCCGGG 6117
Query 6118 GGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTG 6177
Sbjct 6118 GGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTG 6177
Query 6178 CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGCGCACTGCATCAGTGGATAAGCT 6237
Sbjct 6178 CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGCGCACTGCACCACTGGATAAGCT 6237
Query 6238 CGGAGTGTACCATCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG 6297
Sbjct 6238 CGGAGTGTACCATCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG 6297
Query 6298 AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCCAACTGCCTGGGA 6357
Sbjct 6298 AGGTGCTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCCAAGCTGCCTGGGA 6357
Query 6358 TTCCCTTTGTGTCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATG 6416
Sbjct 6358 TTCCCTTTGTGTCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGT-GAGCGCATCATG 6416
Query 6417 CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG 6476
Sbjct 6417 CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG 6476
Query 6477 ATCGTCGCTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAACGCTAC 6536
Sbjct 6477 ATCGTCGCTCTAGGACCTGCAGGAACATGTGGAGTGGGACCTTCCCAATTAATGCCTAC 6536
Query 6537 ACCACGGGGCCCTGTACTCCCTTCCTGCGCCGAACATTAAGTTGCGCGTGTGGAGGGTG 6596
Sbjct 6537 ACCACGGGGCCCTGTATCCCTTCCTGCGCCGAACATACAGTTGCGCGTATGGAGGGTG 6596
Query 6597 TCTGCAGAGGAATACGTGGAGATAAGCGGGTGGGGGACTTCCACTACGT-ATCGGGTAT 6655
Sbjct 6597 TCTGCAGAGGAATATGTGGAGATAAGCGAGGTGGGGGACTTCCACTACGTGA-CGGGTAT 6655
Query 6656 GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATT 6715
Sbjct 6656 GACTACTGACAATCTCAATATGCCCGTGCCAGGTCCCATCGCCGAATTTTTCACAGAATT 6715
Query 6716 GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT 6775
Sbjct 6716 GGACGGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT 6775
Query 6776 ATCATTACAGAGTAGGACTCCACAGTACCCTGGGGTTCGCAATTACCTTGCAGGCCGA 6835
Sbjct 6776 ATCATTACAGAGTAGGACTCCACGAATACCCTGAGGGTTCGCAATTACCTTGCAGGCCGA 6835
Query 6836 ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC 6895
Sbjct 6836 ACCGGACGTGCGCGTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC 6895
Query 6896 GGCCGGGAGAAGGTTGGCGAGAGG-TCACCCCTTCTATGGCCAGCTCCCTCGCTAGCC 6954
Sbjct 6896 GGCCGGGCGAGGTTGGCGAG-GGATCACCCCTCTGTGGCCAGCTCCTCGCTAGCC 6954
Query 6955 AGCTGTCCGCTCATCTCTCAAGGCAACTTGCAACGCCAACATGACTCCCTGACGCCG 7014
Sbjct 6955 AGCTATCCGCTCATCTCTCAAGGCAACTTGCAACCGCTAACCATGACTCCCTGATGCTG 7014
Query 7015 AGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG 7074
Sbjct 7015 AGCTCATAGAGGCCAACCTCCTATGAGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG 7074
Query 7075 AGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATG 7134
Sbjct 7075 AGTCAGAAAAAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGAGC 7134
Query 7135 AGCGGAGGTTCCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTCCGCCGGGCC 7194
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Sbjct	7135	AGCGGGAGATCTCCGTACCCGAGAAATCTCGGGAAGTCTCGGAGATTCGCCAGGCC	7194
Query	7195	TGCCCGTCTGGGCGCGGGCGGACTACAACCCCGCTAGTAGAGACGTGGAAAAAGCCGT	7254
Sbjct	7195	TGCCCGTCTGGGCGCGGGCGGACTATAACCCCGCTAGTGAGAGACGTGGAAAAAGCCG	7254
Query	7255	ACTACGAACCACTGTGGTCCATGGCTGCCCGCTACCACTCCACGGTCCCTCTGTGC	7314
Sbjct	7255	ACTACGAACCACTGTGGTCCATGGCTGCCCGCTTCCACTCCAAGTCCCTCTGTGC	7314
Query	7315	CTCCGCCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGG	7374
Sbjct	7315	CTCCGCCTCGGAAAGCGGACGGTGGTCTCACTGAATCAACCTATCTACTGCCTTGG	7374
Query	7375	CCGAGCTTGCACCAAAAGTTTGGCAGCTCTCAACTTCCGGCATTACGGGCGACAATA	7434
Sbjct	7375	CCGAGCTTGCACCAAGCTTTGGCAGCTCTCAACTTCCGGCATTACGGGCGACAATA	7434
Query	7435	CGACAACATCTCTGAGCCCCCCCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCT	7494
Sbjct	7435	CGACAACATCTCTGAGCCCCCCCCCTTCTGGCTGCCCGGCGACTCCGACGCTGAGTCCT	7494
Query	7495	ATTCCTTCATGCCCCCGTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAT	7554
Sbjct	7495	ATTCCTTCATGCCCGCCCTGGAGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCAT	7554
Query	7555	GGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGCTTATT	7614
Sbjct	7555	GGTCAACGGTCAGTAGTGAGGCCAACGCGGAGGATGTCGTGTGCTCAATGCTTACT	7614
Query	7615	CCTGGACAGGCGCACTCTGCACCCCGTGCCTGCGGGAAGACAAAACATGGCCATCAAG	7674
Sbjct	7615	CTTGGACAGGCGCACTCTGCACCCCGTGCCTGCGGGAAGACAGAAATGCCATCAATG	7674
Query	7675	CACCTAGCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTCAGCAGTG	7734
Sbjct	7675	CACCTAGCAACTCGTTGCTACGTACCCACAATTTGGTGATTCCACCACCTCAGCAGTG	7734
Query	7735	CTTGCCAAAGGCAGAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Sbjct	7735	CTTGCCAAAGGCAGAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Query	7795	AGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Sbjct	7795	AGGACGTACTCAAGGAGGTTAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Query	7855	TAGAGGAAGCTTCGAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGG	7914
Sbjct	7855	TAGAGGAAGCTTCGAGCCTGACGCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGG	7914
Query	7915	CAAAAGACGTCCTGTGCCATGCCAGAAAGGCCGTAGCCCAATCAACTCCGTGTGGAAAG	7974
Sbjct	7915	CAAAAGACGTCCTGTGCCATGCCAGAAAGGCCGTAAACCAATCAACTCCGTGTGGAAAG	7974
Query	7975	ACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAAGAGGTTT	8034
Sbjct	7975	ACCTTCTGGAAGACAATGTAACACCAATAGACACTACCATCATGGCTAAGAAGAGGTTT	8034
Query	8035	ICTGCGTTCAGCCTGAGAAGGGGGTCTGAAGCCAGCTGCTCATCGTGTCTCCCGACC	8094
Sbjct	8035	ICTGCGTTCAGCCTGAGAAGGGGGTCTGAAGCCAGCTGCTCTCATCGTGTCTCCCGATC	8094
Query	8095	TGGGCGTGCGCGTGTGCGGAAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTG	8153
Sbjct	8095	TGGGCGTGCGCGTGTGCGGAAAGATGGCTTGTACGACGTGGTTA-CAAAGCTCCCTTGG	8153
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGTTGAATTCTCT	8213
Sbjct	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGTTGAATTCTCT	8213
Query	8214	GTGCAAGCGTGAAGTCCAAGAAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTT	8273
Sbjct	8214	GTGCAAGCGTGAAGTCCAAGAAAGACCCCAATGGGGTTCTCGTATGATACCCGCTGTTT	8273
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAAGGAGCAATTTACCAATGTTGTGAC	8333

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Sbjct  8274  GACTCCACAGTCTACTGAGAGCGACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGAC  8333
Query  8334  CTGAGCCCCCAAGCCCGCGTGGCCATCAAGTCCCTACTGAGAGGCTTTATGTTGGGGG  8393
Sbjct  8334  CTCGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTACCAGAGAGGCTTTATGTTGGGGG  8393
Query  8394  CCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGCGCTA  8453
Sbjct  8394  CCTCTTACCAATTCAAGGGGGGAGAACTGCGGCTATCGCAGGTGCCGCGAGCGCGCTA  8453
Query  8454  CTGACAACCTAGCTGTGGTAAACACCTCCTTGTCTACATCAAGGCCGGGCGAGCTGTCTGA  8513
Sbjct  8454  CTGACAACCTAGCTGTGGTAAACACCTCCTTGTCTACATCAAGGCCGGGCGAGCTGTCTGA  8513
Query  8514  GCCGCGAGGGTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT  8573
Sbjct  8514  GCCGCGAGGGTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT  8573
Query  8574  GAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTTACGAGGCTTACGAGGCTATGACC  8633
Sbjct  8574  GAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTTACGAGGCTTACGAGGCTATGACC  8633
Query  8634  AGGTACTCCGcccccccggggaccccACAACCAGAAATACGACTTGGAGCTTATAACA  8693
Sbjct  8634  AGGTACTCCGCCCCCCTGGGGACCCCCACAACCAGAAATACGACTTGGAGCTTATAACA  8693
Query  8694  TCATGCTCCTCCAACGTGTGCTGCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTT  8753
Sbjct  8694  TCATGCTCCTCCAACGTGTGCTGCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTT  8753
Query  8754  ACCCGTGACCTTACAACCCCCCTCGCGAGAGCCGCTGGGAGACGACGAGACACTCCA  8813
Sbjct  8754  ACCCGTGACCTTACAACCCCCCTCGCGAGAGCTGCGTGGGAGACGACGAGACACTCCA  8813
Query  8814  GTCAATTCTCGGTAGGCAACATAATCATGTTTGCCCCCAGCTGTGGGCGAGGATGATA  8873
Sbjct  8814  GTCAATTCTCGGTAGGCAACATAATCATGTTTGCCCCCAGCTGTGGGCGAGGATGATA  8873
Query  8874  CTGATGACCAATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC  8933
Sbjct  8874  CTGATGACCAATTTCTTTAGCGTCTTATAGCCAGGGACAGCTTGAACAGGCTCTGAT  8933
Query  8934  TGTGAGATCTACGGAGCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAA  8993
Sbjct  8934  TGCAGATCTACGGGCTGCTACTCCATAGAACCACTTGAATCTACCTCCAATCATTCAA  8993
Query  8994  AGACTCCATGGCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG  9053
Sbjct  8994  AGACTCCATGGCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGG  9053
Query  9054  GTGGCCGATGCTCAGAAAACTTGGGGTCCCGCCCTTGGGAGCTTGAGAGACACGGGGC  9113
Sbjct  9054  GTGGCCGATGCTCAGAAAACTTGGGGTACCGCCCTTGGGAGCTTGAGAGACACGGGGC  9113
Query  9114  CGGAGCGTCCGCGCTAGGCTTCTGTGTCAGAGGAGGAGGGCTGCCATATGTGGCAAGTAC  9173
Sbjct  9114  CGGAGCGTCCGCGCTAGGCTTCTGTGTCAGAGGAGGAGGGCTGCCATATGTGGCAAGTAC  9173
Query  9174  CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCG  9233
Sbjct  9174  CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCG  9233
Query  9234  CTGGACTTGTCCGGTTGGTTACGCGTGGCTACAGCGGGGGAGACATTATACAGCGCTG  9293
Sbjct  9234  CTGGACTTGTCCGGTGGTTACGCGTGGCTACAGCGGGGGAGACATTATACAGCGCTG  9293
Query  9294  TCTCATGCCGGGCGCGCTGGTTCTGGTTTTGCTACTCTGCTGCTGACAGGGGTAGGC  9353
Sbjct  9294  TCTCATGCCGGGCGCGCTGGATCTGGTTTTGCTACTCTGCTGCTGACAGGGGTAGGC  9353
Query  9354  ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCT  9401
Sbjct  9354  ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCT  9401

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>dbj|BD080334.1| Hepatitis C virus asialoglycoprotein

Length=9401

Score = 1.520e+04 bits (8231), Expect = 0.0
 Identities = 9018/9408 (95%), Gaps = 14/9408 (0%)
 Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCGTGAGGAAGTACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCGTGAGGAAGTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGAGCCTCCAGGA	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCTTTCTTGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCTTTCTTGATCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGAGTGCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGAGTGCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC	360
Query	361	CTCAAGAAAAAACAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCTGGGTG	420
Sbjct	361	CTCAAAAAAACAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCTGGGTG	420
Query	421	GCGGTGAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTGAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCCCTATG	600
Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCCCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGATGGCTCCTGTCTCCCGTGCGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGATGGCTCCTGTCTCCCGTGCGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATAACCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATAACCTTA	720
Query	721	CGTGGCGGTTCCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCCCTTGTGGAGGG	780
Sbjct	721	CGTGGCGGTTCCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCCCTTGTGGAGGG	780
Query	781	CTGCGAGGGCCCTGGCGCATGGCGTCCGGGTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCGAGGGCCCTGGCGCATGGCGTCCGGGTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACTCTTCTGGTGTGCTCTTTCTCTATCTTCTCTGCGCCCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACTCTTCTGGTGTGCTCTTTCTCTATCTTCTCTGCGCCCTGCTCTCTTGGCTGACTG	900
Query	901	TGCCCGCTTCAGCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCTACCAAGTGCACAATTCCTCGGGGCTTTACCACGTACCAATGATT	960
Query	961	GCCCTAATCGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAATCGAGTATTGTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTTCGCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080

Sbjct	1021	TCCCTTGCCTTCGTGAGGGCAACGCCTCGAGGTGTGGGTGGCGATGACCCCTACGGTGG	1080
Query	1081	CCACCAGGGAGCGCAAACTCCCCACAACGCAGCTTCGACGTACATCGATCTGCTTGTGCG	1140
Sbjct	1081	CCACCAGGGATGCGCAAACTCCCCGCGACGCAGCTTCGACGTACATCGATCTGCTTGTGCG	1140
Query	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTGTG	1200
Sbjct	1141	GGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTATGCGGGTCTGCTTTCTTGTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TCGGCCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCT	1260
Query	1261	CTATCTATCCCGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGCCATATAACGGGTACCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCCATCGGACGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380
Sbjct	1321	CCCCATCGGACGCGTTGGTAATGGCTCAGCTGCTCCGGATCCCAAGCCATCTTGGACA	1380
Query	1381	TGATCGCTGGTGCTACTGGGGAGTCTTGGCGGGCATAGCGTATTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTACTGGGGAGTCTTGGCGGGCATAGCGTATTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCTGGTAGTGCTGCTGCTATTTCGGCGGCTCGACGCGGAAACCCAGC	1500
Sbjct	1441	ACTGGGCGAAGGTCTGGTAGTGCTGCTGCTATTTCGGCGGCTCGACGCGGAAACCCAGC	1500
Query	1501	TCACCGGGGGAATGCGCGGCCACACGCGTGGGCTTGTGGTCTTCCTTACACGAGCG	1560
Sbjct	1501	TCACCGGGGGAATGCGCGGCCACACTGTGTCTGGATTGTGTAGCTTCTCGCACGAGCG	1560
Query	1561	CAAGCAGAACTCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT	1620
Sbjct	1561	CAAGCAGAACTCCAAGCTGATCAACACCAACGGCAGTTGGCACCTCAATAGCAGCGCC	1620
Query	1621	TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACAAAT	1680
Sbjct	1621	TGAATGCAATGATAGCCTCAACACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTGGCCAGCTGCCGACGCTTACCGATTTTGCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGCTAGCCAGCTGCCGACGCTTACCGATTTTGACC	1740
Query	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCTCGACGAAACGCCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCCCGACGAGCCCCCTACTGCT	1800
Query	1801	GGCAGTACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGCTGTGTGGCCGGTAT	1860
Sbjct	1801	GGCAGTACCCCCCAAACCTTGCAGTATTGTGCCCGCAAGAGTGTGTGTGGTCCGGTAT	1860
Query	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCCACTCT	1920
Sbjct	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCCACTCT	1920
Query	1921	ACAGCTGGGGTGCAATGATACGATGTCTTCGTCCTTAACAACACGAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGAAATGATACGAGCTCTTCGTCCTTAACAATACGAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAGTGTGCGGAGCGC	2040
Query	2041	CCCCCTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CTCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACTCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTGCATACCCGATATAGGCTTTGGCATTATCCTTGTACCATCAATTACACCATAT	2220

Sbjct	2161	GCCTGGTCGACTACCCGATATAGGCTTTGGCATTACCTTGTACCATCAACTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TTAAATATCAGGATGTACGTGGGAGGGGTGGAACAGGCTGGAAGCTGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCAGGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCAGGCTCAGCCCGTTACTGC	2340
Query	2341	TGTCACACACAGTGGCAGGTCCTTCCGTGTTCTTTACAGACCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGACCACTACAGTGGCAGGTCCTCCCGTGTTCCTTCAACAACCTACCAGCCTTGTCCA	2400
Query	2401	CGGGCTCATCCACCTCCACAGAACATTGTGGACGTGAGTACTTGTACGGGTAGGGT	2460
Sbjct	2401	CGGGCTCATCCACCTCCACAGAACATTGTGGACGTGAGTACTTGTACGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTTGGGCCATTAAAGTGGAGTACGTCGTTCTCCGTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTTGGGCCATTAAAGTGGAGTACGTCGTTCTCCGTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTTGGATGATGCTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGCTTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTTAATGCAGCATCCCTGGCCGGGACGACGGCTTTGTAT	2640
Query	2641	CCTTCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGCTAGGTGGGTGCCGGAGCGG	2700
Sbjct	2641	CCTTCTCGTGTTCTTCTGCTTTGCTATGATATTGAAGGCTAGGTGGGTGCCGGAGCGG	2700
Query	2701	TCACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTGTGCTACGCGGG	2760
Sbjct	2701	TCACACCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTGTGCTACGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGGGTTAA	2820
Sbjct	2761	CGTACGCGCTGGACACGGAGGTGGCCGCTCGTGTGGCGGTGTGTTCTTGTGGGTTGA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGGGTTTCCCCCTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGGGATTCCCCCTCAACGTCC	2940
Query	2941	gggggggCGGAGTGGCTCATCTTACTCATGTGTG-TAGTACACCGACCGTGGTATT	2999
Sbjct	2941	GAGGGGGGCGCGACGCCGTCATCTTACTCATGTGTGCT-GTACACCGACTCTGGTATT	2999
Query	3000	GACATCACCAAACTACTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Sbjct	3000	GACATCACCAAAATGCTGCTGGCCGCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Query	3060	CTTAAAGTCCCTACTTCGTGCGCGTTCAAGGCCCTCTCCGGATCTGCGCGCTAGCGCGG	3119
Sbjct	3060	CTTAAAGTACCTTACTTTGTGCGCGTCCAGGCCCTCTCCGGTCTGCGCGCTAGCGCGG	3119
Query	3120	AAGAT-AGCGCGAGGTCATTACGTGCAAAATGGCCATCATCAAGTAGGGGCGCTTACTGG	3178
Sbjct	3120	AAGATGATC-GGAGGCCATTACGTGCAAAATGGTCATCATTAAGTAGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAACCACTCTACCCCTCTTCGAGACTGGGCGCACACGGCTTGCAGGA	3238
Sbjct	3179	CACCTATGTTTATAACCACTCTACTCTCTTCGGGACTGGGCGCACACGGCTTGCAGGA	3238
Query	3239	CTGCGCGTGGCTGTGGAACCAAGTCGCTCTTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	CTGCGCGTGGCTGTAGAGCAAGTCGCTCTTCCCAATGGAGACCAAGCTCATCACGTG	3298
Query	3299	GGGGGCAGATACCGCGCGTGGGTGACATCATCAACGGCTTGGCCGCTCTTGCCTGTAG	3358

Sbjct	3299	GGGGGCAGATACCGCCGCTGCGGTGACATCATCAACGGCTTGCCCTGTTCCGCCGCCAG	3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGTTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359	GGGCCGGGAGATACTGCTCGGCCACGCCATGGAATGTTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419	GGCGCCCATCAGCGCTAGGCCAGCAGACGAGAGGCTCCTAGGGTGTAATAATCACCAG	3478
Sbjct	3419	GGCGCCCATCAGCGCTAGGCCAGCAGACAAGGGGCTCCTAGGGTGATATAATCACCAG	3478
Query	3479	CCTGACTGGCCGGGACAAAAACAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
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Sbjct	3539	CCAAACCTTCTCTGGCAACGTGCATCAATGGGGTGCTGTGAGTGTCTACCACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATACCCAAAGGTTCTGTATCCAGATGTAATCAATGTGGACCA	3658
Sbjct	3599	AACGAGGACCATCGCTACCCAAAGGTTCTGTATCCAGATGTATACCAATGTAGACCA	3658
Query	3659	AGACCTTGTGGGCTGGCCCGCTTCTCAAGGTTCGGCGTCATTGACACCTGTACTTCGGG	3718
Sbjct	3659	AGACCTTGTGGGCTGGCCCGCTTCGCAAGGTAGCCGCTCATTGACACCTGTACTTCGGG	3718
Query	3719	CTCCTCGGACCTTTACTTGGTCACGAGGCACGCCGATGTCAATCCCGTGCGCCGGCGAGG	3778
Sbjct	3719	CTCCTCGGACCTTTACTTGGTCACGAGGCACGCCGATGTCAATCCCGTGCGCCGGCGGGG	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCCGCCCCGGGCCATTTCTCACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGGACGCTGCTGTGCGCCCGGCCCATTTCTCACTTGAAAGGCTCCTCGGG	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCTATTAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCTATTAGGGCCGCGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGACAAACATGAG	3958
Sbjct	3899	CCGTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAAACATGAG	3958
Query	3959	ATCCCCGGTGTTTACGGACAACCTCCTCTCCACAGCAGTGGCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	GTCCCCGGTGTTTACGGATAACCTCCTCTCCACAGTAGTGGCCAGAGCTTCCAGGTGGC	4018
Query	4019	CCACCTGCATGCTCCACCGGCAGCGTAAGAGCACCAAGTCCC GGCTGCGTACGCAGC	4078
Sbjct	4019	TCACCTFCAATGCTCCACAGGCAGCGGCAAAAGCACCAAGTCCC GGCTGCATATGCAGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	TCAGGGCTATAAGGTGCTAGTACATCAACCCCTCTGTGCTGCACACCTGGGCTTTGGTGC	4138
Query	4139	TTACATGTTCAAGGCCCATGGGGTGTATCTCTAATACAGGACGGGGTGAGAACAAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCTCATGGGATCGATCTTAACATCAGGACGGGGTGAGAACAAATTAC	4198
Query	4199	CACGTGCAGCCCCATACGTACTCCACCTACGGCAAGTTCCTTGGCGACGGCGGGTGCTC	4258
Sbjct	4199	CACGTGCAGCCCCATACGTACTCCACCTACGGCAAGTTCCTTGGCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	GGGGGGCGCTTATGACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACGTGCTTGGACCAAGCAGAGACTGCGGGGGCAGACTGGTTGTGCT	4378
Sbjct	4319	CTTGGGCATCGGCACGTGCTTGGACCAAGCAGAGACTGCGGGGGCAGACTGGTTGTGCT	4378
Query	4379	CGCCACTGTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTAACATCGAGGAGTTGC	4438
Sbjct	4379	CGCCACCGCCACCCCTCCGGGCTCCGTCACTGTGCCCATCCAAATCGAGGAGTTGC	4438
Query	4439	TCTGTCCACACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCTCGAGGTGATCAA	4498

Sbjct	4439	TCGTGCCACCACCGGAGAGATCCCTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAA	4498
Query	4499	GGGGGGGAAGACATCTCATCTTCTGCCACTCAAGAAGAAGTGCAGCAGCTCGCCGGCAA	4558
Sbjct	4499	GGGGGGGAGACATCTCATCTTCTGTCAATCAAGAAGAAGTGCAGCAACTCGCCGCAA	4558
Query	4559	GCTGGTTCGATTGGGCATCAATGCCGTGGCTACTACCGGGCTTTCGAGTGTCTGTTCAT	4618
Sbjct	4559	GCTGGTTCGATTGGGCATCAATGCCGTGGCTACTACCGGGCTTTCGAGTGTCCGTCAT	4618
Query	4619	CCCACCAGCGCGCATGTTGTCTGTCTGACCGCATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCCACCAGCGCGCATGTTGTCTGTCTGCGCAACCGATGCCCTCATGACCGCTATACCGG	4678
Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTTGTCTACTCAGACAGTCGATTTACGCT	4738
Sbjct	4679	CGACTTCGACTCGGTGATAGACTGCAATACGTTGTCTACCCAGACAGTCGATTTACGCT	4738
Query	4739	TGACCCCTACCTTTACATTAGACAACACGCTCCCCAGATGCTGTCTCCAGGACTCA	4798
Sbjct	4739	TGACCCCTACCTTTACATTAGACAACACGCTCCCCAGGATGCTGTCTCCGCACTCA	4798
Query	4799	ACGCGGGGCGAGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACC	4858
Sbjct	4799	ACGTCGGGCGAGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACC	4858
Query	4859	GCGCCCTCCGCGCATGTTTCGACTCGTCCGCTCTGTGAGTGCTATGACGCGGCTGTGC	4918
Sbjct	4859	GCGCCCTCCGCGCATGTTTCGACTCGTCCGCTCTGTGAGTGCTATGACGAGGCTGTGC	4918
Query	4919	TTGGTATGAGCTACGCGCCCGCAGACTACAGTTAGGCTACGAGCGTACATGAACCCCC	4978
Sbjct	4919	TTGGTATGAGCTACGCGCCCGCAGACTACAGTTAGGCTACGAGCGTACATGAACCCCC	4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCACTTTGAATTTTGGGAGGGCGTCTTTACGGGCTTAC	5038
Sbjct	4979	GGGGCTTCCCGTGTGCCAGGACCACTTTGAATTTTGGGAGGGCGTCTTTACGGGCTTAC	5038
Query	5039	TCATATAGATGCCCACTTTTATCCCGAGCAAAAGCAGAGTGGGAGAACTTTCCTTACCT	5098
Sbjct	5039	TCATATAGATGCCCACTTCTATCCCGAGCAAAAGCAGAGTGGGAGAACTTTCCTTACCT	5098
Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCA	5158
Sbjct	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCA	5158
Query	5159	GATGTGGAAGTGTTTGTATCCGCTTTAAACCCACCTCCATGGGCGAACACCCCTGCTATA	5218
Sbjct	5159	GATGTGGAAGTGTTTGTATCGCTCAAGCCACCTCCATGGGCGAACACCCCTGCTATA	5218
Query	5219	CAGACTGGGCGCTGTTTCAAGTGAAGTCAACCTGACGCAACCAATCACCAAATACATCAT	5278
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Query	5279	GACATGCTGTTCGGCCGACTGGAGGCTGTCACAGAGCACTGGGTGCTGCTTGGCGCGGT	5338
Sbjct	5279	GACATGCTGTTCGGCCGACTGGAGGCTGTCACAGAGCACTGGGTGCTGCTTGGCGCGGT	5338
Query	5339	CCTGGCTGCTCTTGGCGCGGTATTGCTGTCAACAGGCTGCGTGGTCTATAGTGGGAGGAT	5398
Sbjct	5339	CCTGGCTGCTCTTGGCGCGGTATTGCTGTCAACAGGCTGCGTGGTCTATAGTGGGAGGAT	5398
Query	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTGC	5457
Sbjct	5399	CGTCTTGTCCGGGAAGCCGGCAATATACCTGACAGGGGAAGTCTCTACCGAG-AGTTGC	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGATGATGCTCGCTG	5517
Sbjct	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGATGATGCTCGCGG	5517
Query	5518	AGCAGTTCAAGCAGAAGGCCCTTCGGCTCTCGACAGACCGCTCCCGCATGACAGAGTTA	5577
Sbjct	5518	AGCAGTTCAAGCAGAAGGCCCTTCGGCTCTCGACAGACCGCTCCCGTCAGGAGAGTTA	5577
Query	5578	TCACCCCTGCTGTCCAGACCACTGGCAGAACTCGAGGTCCTTTGGGCGAAGCACATGT	5637

Sbjct	5578	TCGCCCCTGCTGCTCCAGACCAACTGGCAAAAACCTCGAGACCTTCTGGGCGAAGCATATGT	5637
Query	5638	GGAATTTTCATCAGTGGGATAACAATCTTGGCGGGCTGTCAACGCTGCTGGTAACCCCG	5697
Sbjct	5638	GGAACCTTCATCAGTGGGATAACAATCTTGGCGGGCTGTCAACGCTGCTGGTAACCCCG	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAA	5757
Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTAGCCAAA	5757
Query	5758	CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG	5817
Sbjct	5758	CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG	5817
Query	5818	CTACTGCCCTTTGGGGTGTGGCTAGCTGGCGCCGCCATCGCGAGCGTTGGACTGGGGA	5877
Sbjct	5818	CTACTGCCCTTTGGGGGCTGGCTAGCTGGCGCCGCCATCGCGAGTGTGGACTGGGGA	5877
Query	5878	AGGTCTCTGGGACATTCTTGCAGGGTATGGCGCGGGCTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCTCTATAGACATCTTGCAGGGTATGGCGCGGGCTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938	TCAAGATCATGAGCGGTAGGTTCCCTCCACGAGGAGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938	TCAAGATCATGAGCGGTAGGTTCCCTCCACGAGGAGACCTGGTCAATCTACTGCCCGCCA	5997
Query	5998	TCTCTCGCCTGGAGCCCTTGTAGTTCGGTGTGGTCTGCGCAGCAATCTGCGCCGGCAG	6057
Sbjct	5998	TCTCTCGCCCGGAGCCCTCGTAGTTCGGTGTGGTCTGCGCAGCAATCTGCGCCGGCAG	6057
Query	6058	TTGGCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGG	6117
Sbjct	6058	TTGGCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTGATAGCCTTCGCCTCCCGG	6117
Query	6118	GGAACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGACGCGCCCGCGTCACTG	6177
Sbjct	6118	GGAACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGACGTGCCCGCGTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGCGCACTGCATCAGTGGATAAGCT	6237
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Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGA	6357
Sbjct	6298	AGGTGTTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGA	6357
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Sbjct	6358	TTCCCTTTGTGCTCTGCCAGCGCGGGTATAAGGGGGTTCTGGCGAGTG-GACGGCATATG	6416
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Sbjct	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Query	6477	ATCGTCGCTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTAC	6536
Sbjct	6477	ATCGTCGCTCCTAGGACCTGCAGGAACATGTGGAGTGGGACCTTCCCATTAATGCTTAC	6536
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Query	6597	TCGAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTAT	6655
Sbjct	6597	TCGAGAGGAATATGTGGAGATAAGGCGAGGTGGGGGACTTCCACTACGTGA-CGGGTAT	6655
Query	6656	GACTACTGACAATCTTAATGCCCGTGCCAGATCCCATCGCCGAATTTTTACAGAAATT	6715
Sbjct	6656	GACTACTGACAATCTCAATGCCCGTGCCAGGTCCCATCGCCGAATTTTTACAGAAATT	6715
Query	6716	GGACGGGGTGCCTACACAGGTTTGCGCCCTTTCGAAGCCCTTGTCTGCGGGAGGAGGT	6775

Sbjct	6716	GGACGGGGTGCCTCATAGGTTTGC GCCCCC TGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Query	6776	ATCAITCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCAATTACCTTGCAGGCCGA	6835
Sbjct	6776	ATCAITCAGAGTAGGACTCCACGAATACCCGGTAGGGTGCAATTACCTTGCAGGCCGA	6835
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Sbjct	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGTAGCC	6954
Sbjct	6896	GGCCGGGCGAAGGTTGGCGAG-GGGATACCCCTCTGTGGCCAGCTCCTCGGTAGCC	6954
Query	6955	AGCTGTCCGCTCCATCTCTCAAGGCAACTTGACCCGCCAACCATGACTCCCTGACGCCG	7014
Sbjct	6955	AGCTATCCGCTCCATCTCTCAAGGCAACTTGACCCGCTAACCATGACTCCCTGATGCTG	7014
Query	7015	AGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGCGGCAACATCACCAGGGTTG	7074
Sbjct	7015	AGCTCATAGAGGCCAACCTCCTATGAGAGGCAGGAGATGGCGGCAACATCACCAGGGTTG	7074
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Sbjct	7135	AGCGGGGAGATCTCCGTACCCGCAGAAATCTGCGGAAGTCTCGGAGATTGCCCGAGGCC	7194
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Sbjct	7195	TGCCCGTTTGGGCGCGGCCGGACTATAACCCCGCTAGTGAGAGCTGGAAGAACGCGC	7254
Query	7255	ACTACGAACCACTGTGGTCCATGGCTGCCGCTACCACTCCACGGTCCCTCTGTGCG	7314
Sbjct	7255	ACTACGAACCACTGTGGTCCATGGCTGCCGCTTCCACTCCAAGTCCCTCTGTGCG	7314
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Sbjct	7315	CTCCGCTCTGGAGAGAAGCGGACGGTGGTCTCACTGAATCAACCTATCTACTGCTTTGG	7374
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Sbjct	7435	CGACAACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCGACTCCGACGCTGAGTCTCT	7494
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Sbjct	8095	TGGCGTGCGCGTGTGCGAAAAGATGGCTTTGTACGACGTGGTTA-CAAGGCTCCCCCTG	8153
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Sbjct	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8213
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Sbjct	8574	GAAAGTCGCGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACC	8633
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Sbjct	8634	AGGTACTCCGCCCCCCCCGGGACCCCAACAACAGAAATACGACTTGGAGCTTATAACA	8693
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Sbjct  8994  AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGG  9053
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Length=9401

Score = 1.520e+04 bits (8231), Expect = 0.0
Identities = 9018/9408 (95%), Gaps = 14/9408 (0%)
Strand=Plus/Plus

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Sbjct   301      GTGCTTGCAGAGTGCCCGGGAGGCTCTGTAGACCGTGACCATGAGCAGCAATCCTAAAC  360
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Sbjct   481      GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTAGCCTATCCCCA  540
Query   541      AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCCCTATG  600
Sbjct   541      AGGCTGTGCGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTGGCCCCCTATG  600
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Sbjct	601	GCAATGAGGGCTGCGGGTGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCAGCT	660
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Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCAATCGATACCCCTTA	720
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Sbjct	721	CTGTGGGCTTCGCCGACCTCATGGGGTACATACCGCTCTGTGGCGGCCCTCTTGGAGGGG	780
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Sbjct	1021	TCCTTTGCGTTTCGTGAGGGCAACGCCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
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Sbjct	1741	AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCGACAGCGCCCTACTGCT	1800
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Sbjct	1801	GGCACTACCCCCCAAACCTTGCCTGATTGTGCCCGGAAGAGTGTGTGGTCCGGGTAT	1860
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Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGC	2040
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Query	2101	GCAAACATCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGACGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCTGGTCGACTACCCGTATAGGCTTTGGCATTATCCTTGTACCATCAACTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGCTGGAAGCGCGCTGCAACTGGA	2280
Sbjct	2221	TTAAATCAGGATGTACGTGGGAGGGGTGGAACAGGCTGGAAGCTGCCTGCAACTGGA	2280
Query	2281	CGCGGGCGAAGCGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGCGAAGCGTTGCGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGACCACTACACAGTGGCAGGTCTTCCGTGTTCTTCAACAACCTTACCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTTGGGCCATTAAAGTGGGAGTACGTGTTCTCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTTGGGCCATTAAAGTGGGAGTACGTGTTCTCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTGCTGCTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTGCTGCTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCCTCGTAATACTTAAAGCAGCATCCCTGGCCGGGACGACGGTCTTGTAT	2640
Query	2641	CCTTCTCTGTTCTTCTGCTTTGCGTGGTAICTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCTCTGTTCTTCTGCTTTGCAATGGTATTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Query	2701	CTTACGCCCTCTACGGGAITGGCCCTCTCTCTGCTCTGCTGCGGCTTGGCGGCGGG	2760
Sbjct	2701	CTTACACCTCTACGGGATGTGGCCCTCTCTCTGCTCTGCTGTTGGCGTGTGCCACGCGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGCGGTTAA	2820
Sbjct	2761	CGTACGCGCTGGACACGGAGGTGGCCGCTCGTGTGGCGGCTGTGTTCTTGTGCGGTTGA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGACCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCAGCTGTGGGTTTCCCGCTCAACGTCC	2940

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Sbjct 2881 AGTATTTTCTGACCAGAGTGAAGCGCAACTGCACGTGTGGATTCCCCCCCTCAACGTCC 2940
Query 2941 ggggggggCGCGATGCCGTCACTTACTCATGTGTG-TAGTACACCCGACCTGGTATT 2999
Sbjct 2941 GAGGGGGGCGCGACGCCGTCACTTACTCATGTGTGCT-GTACACCCGACTCTGGTATT 2999
Query 3000 GACATCACCAAATCTCTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG 3059
Sbjct 3000 GACATCACCAAATGTCTGCTGGCCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG 3059
Query 3060 CTTAAAGTCCCTACTTCTGTCGCGTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGG 3119
Sbjct 3060 CTTAAAGTACCTACTTTTGTGCGCGTCCAAGGCCCTTCTCCGGTTCGCGCGTTAGCGCGG 3119
Query 3120 AAGAT-AGCCGGAGGTCATTACGTGCAATGGCCATCATCAAGTTAGGGGCGCTTACTGG 3178
Sbjct 3120 AAGATGATC-GGAGGCCATTACGTGCAATGGTCATCATTAAGTTAGGGGCGCTTACTGG 3178
Query 3179 CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCAACAGGCCCTGCGAGA 3238
Sbjct 3179 CACCTATGTGTATAACCATCTCACTCTCTCTTCGGGACTGGGCGCAACAGGCCCTGCGAGA 3238
Query 3239 TCTGGCCGTGGCTGTGGAACCAAGTCGCTTCTCCCGAATGGAGACCAAGCTCATCACGTG 3298
Sbjct 3239 TCTGGCCGTGGCTGTAGAGCCAAGTCGCTTCTCCCGAATGGAGACCAAGCTCATCACGTG 3298
Query 3299 GGGGGCAGATACCGCCGCGTGCCTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG 3358
Sbjct 3299 GGGGGCAGATACCGCCGCGTGCCTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG 3358
Query 3359 GGGCCAGGAGATACTGCTTGGGCCAGCCGAGGAAATGGTCTCCAAGGGGTGGAGGTTGCT 3418
Sbjct 3359 GGGCCGGAGAGATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCT 3418
Query 3419 GGCGCCCATACCGCGGTACGCCAGCAGAGAGAGGCCCTCCTAGGGTGATAATCACCAG 3478
Sbjct 3419 GGCGCCCATACCGCGGTACGCCAGCAGACAAGGGGCCCTCCTAGGGTGATAATCACCAG 3478
Query 3479 CCTGACTGGCCGGGACAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTAC 3538
Sbjct 3479 CCTAAGTGGCCGGGACAAAACCAAGTGGAGGGTGAAGTCCAGATTGTGTCAACTGCTGC 3538
Query 3539 CCAAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG 3598
Sbjct 3539 CCAAACCTTCTTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGG 3598
Query 3599 AACGAGGACCATCGCATCACCAAGGGTCCTGTATCCAGATGTATACCAATGTGGACCA 3658
Sbjct 3599 AACGAGGACCATCGCGTCACCAAGGGTCCTGTATCCAGATGTATACCAATGTAGACCA 3658
Query 3659 AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCGTGACCTGCGG 3718
Sbjct 3659 AGACCTTGTGGGCTGGCCCGCTCCGCAAGGTAGCCGCTCATTGACACCCGTGACCTGCGG 3718
Query 3719 CTCTCGGACCTTTTAACTGGTCACGAGGACACGCCAGTGTCAATCCCGTGCGCCGGCGAGG 3778
Sbjct 3719 CTCTCGGACCTTTTAACTGGTCACGAGGACACGCCAGTGTCAATCCCGTGCGCCGGCGAGG 3778
Query 3779 TGATAGCAGGGGTAGCCCTGCTTTGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGG 3838
Sbjct 3779 TGATAGCAGGGGAGCCCTGCTGTCGCCCGGGCCATTTCTCACTTGAAAGGCTCCTCGGG 3838
Query 3839 GGGTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCTTATCAGGGCCGGGTGTGCAC 3898
Sbjct 3839 GGGTCCGCTGTTGTGCCCGCGGGGACACGCCGTGGGCTATTTAGGGCCGGGTGTGCAC 3898
Query 3899 CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACTAGGGACAACCATGAG 3958
Sbjct 3899 CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACTAGAGACAACCATGAG 3958
Query 3959 ATCCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCTCCAGAGCTTCCAGGTGGC 4018
Sbjct 3959 GTCCCCGGTGTTCACGGATAACTCCTCTCCACCAGTAGTGCCTCCAGAGCTTCCAGGTGGC 4018
Query 4019 CCACCTGCATGCTCCACCAGCGCAGCGTAAGAGCACCAAGGTCCTGGCTGCGTACGCAGC 4078
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Sbjct	4019	TCACCTCATGCTCCACAGGCAGCGCAAAAGCACCAAGGTCCGGGTGCATATGCGAC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTGTGTCGAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	TCAGGGCTATAAGTGCTAGTACTCAACCCCTCTGTGTGTCGAACACTGGGCTTTGGTGC	4138
Query	4139	TTACATGTCCAAGGCCATGGGGTGTATCTTAATATCAGGACCGGGGTGAGAACAAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCTCATGGGATCGATCTTAACATCAGGACCGGGGTGAGAACAAATTAC	4198
Query	4199	CAC TGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CAC TGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGGCCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATAAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	GGGGGGCGCTTATGACATAATAAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCATGTCTTGCACCAAGCAGAGACTGCGGGGGCAGAGCTGGTGTGCT	4378
Sbjct	4319	CTTGGGCATCGGCATGTCTTGCACCAAGCAGAGACTGCGGGGGCAGAGCTGGTGTGCT	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCATGTGTCCCATCTCAACATCGAGGAGGTTCG	4438
Sbjct	4379	CGCCACC CGCACCCTCCGGGCTCCGTCATGTGTCCCATCTCAACATCGAGGAGGTTCG	4438
Query	4439	TCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Sbjct	4439	TCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAA	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTCGACGAGCTCGCCGCGAA	4558
Sbjct	4499	GGGGGGGAGACATCTCATCTTCTGTCATCAAAGAAGAAGTCGACGGAACCTCGCCGCAA	4558
Query	4559	GCTGGTCGCAATTGGGCATCAATGCCGTGGCTACTACCGGGCTTTGACGTGCTGTGAT	4618
Sbjct	4559	GCTGGTCGCAATTGGGCATCAATGCCGTGGCTACTACCGGGCTTTGACGTGCTGTGAT	4618
Query	4619	CCCGACCAGCGGCGATGTTGTGCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCCGACCAGCGGCGATGTTGTGCTGCTGTCGACCGATGCCCTCATGACCGCTATACCGG	4678
Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCTACTCAGACAGTCGATTTACGCC	4738
Sbjct	4679	CGACTTCGACTCTGTGATAGACTGCAATACGTGTGTCAACCGACAGTCGATTTACGCC	4738
Query	4739	TGACCCCTACCTTTACCAATTGAGACAACCAACGCTCCCCAGGATGCTGTCTCCAGGACTCA	4798
Sbjct	4739	TGACCCCTACCTTACCAATTGAGACAATCAGCTCCCCAGGATGCTGTCTCCCGCACTCA	4798
Query	4799	ACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGA	4858
Sbjct	4799	ACGTCCGGGCGAGGACTGGGCGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGA	4858
Query	4859	CGCCGCTCCGGCATGTTTCGACTCGTCCGCTCTCTGTGAGTGCTATGACGCGGGCTGTG	4918
Sbjct	4859	CGCCGCTCCGGCATGTTTCGACTCGTCCGCTCTCTGTGAGTGCTATGACGAGGCTGTG	4918
Query	4919	TTGGTATAGCTACAGCCCGCGAGACTACAGTATAGGCTACGAGCGTACATGAACACCC	4978
Sbjct	4919	TTGGTATAGCTACAGCCCGCGAGACTACAGTATAGGCTACGAGCGTACATGAACACCC	4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTTGAATTTTGGGAGGGCGTCTTTACGGGCTTAC	5038
Sbjct	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTTGAATTTTGGGAGGGCGTCTTTACAGGCTTAC	5038
Query	5039	TCATATAGATGCCCACTTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACCT	5098
Sbjct	5039	TCATATAGATGCCCACTTTCTATCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACCT	5098
Query	5099	GGTAGCGTACCAAGCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCA	5158
Sbjct	5099	GGTAGCGTACCAAGCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCA	5158
Query	5159	GATGTGGAAAGTGTTTGATCCGCTTAAACCCACCCCTTCATGGGCGAACACCCCTGCTATA	5218

Sbjct	5159	GATGTGGGAAGTGTGTTGATTGCTCGCCCTCAAGCCCACCCCTCCATGGGCCAACACCCCTGCTATA	5218
Query	5219	CAGACTGGGCGCTGTTTTCAGAAATGAAGTCACCCCTGACGACCCCAATACCAAAATACATCAT	5278
Sbjct	5219	CAGACTGGGCGCTGTTTTCAGAAATGAAGTCACCCCTGACGACCCCAATACCAAAATACATCAT	5278
Query	5279	GACATGCAATGTCTGGCGCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Sbjct	5279	GACATGCAATGTCTGGCGCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Query	5339	CCTGGCTGCTCTGGCGCGCTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGCGAGGAT	5398
Sbjct	5339	CCTGGCTGCTCTGGCGCGCTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGCGAGGAT	5398
Query	5399	CGTCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTTCG	5457
Sbjct	5399	CGTCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAG-AGTTTCG	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCCTACATCAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCCTACATCAGCAAGGGATGATGCTCGCTG	5517
Query	5518	AGCAGTTCAAGCAGAAAGGCCCTCGGCCCTCTGCAGACCGCGTCCC GCCATGAGAGGGTTA	5577
Sbjct	5518	AGCAGTTCAAGCAGAAAGGCCCTCGGCCCTCTGCAGACCGCGTCCC GCCATGAGAGGGTTA	5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCGAGAACTCGAGGTCCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578	TCGCCCCCTGCTGTCCAGACCAACTGGCGAGAACTCGAGGTCCTTTTGGGCGAAGCATATGT	5637
Query	5638	GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCCG	5697
Sbjct	5638	GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCCG	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAA	5757
Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTAGCCAAA	5757
Query	5758	CCCTCCTCTTCAACATATTgggggggTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGGCG	5817
Sbjct	5758	CCCTCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGGCG	5817
Query	5818	CTACTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	CTACTGCCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGGTGTTGGACTGGGGA	5877
Query	5878	AGGTCTCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCTCTCATAGACATCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCGCCCA	5997
Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTACTGCCGCCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGC	6057
Sbjct	5998	TCCTCTCGCCCGGAGCCCTCGTAGTTCGGTGTGGTCTGTCAGCAATACTGCGCCGGCAGC	6057
Query	6058	TTGGCCCGGGCGAGGGGGCAGTGCATGGATGAACCCGGCTAATAGCCTTCGCCCTCCCGG	6117
Sbjct	6058	TTGGCCCGGGCGAGGGGGCAGTGCATGGATGAACCCGGCTGATAGCCTTCGCCCTCCCGG	6117
Query	6118	GGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGGCTCACTG	6177
Sbjct	6118	GGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCCGGCTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGCGACTGCACCACTGGATAAGCT	6237
Query	6238	CGGAGTGTACCACCTCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	CGGAGTGTACCACCTCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAGCTCATGCCACAACCTGCCTGGGA	6357

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Sbjct  6298  AGGTGTTGAGCGACTTTAAGACCTGGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGA  6357
Query   6358  TTCCTTTTGTGTCTTCCGCCAGCGCGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATG  6416
Sbjct   6358  TTCCTTTTGTGTCTTCCGCCAGCGCGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATG  6416
Query   6417  CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCTAAAAACGGGACGATGAGG  6476
Sbjct   6417  CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCTAAAAACGGGACGATGAGG  6476
Query   6477  ATCGTCGGTCTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCATTAACGCCTAC  6536
Sbjct   6477  ATCGTCGGTCTCTAGGACCTGCAGGAACATGTGGAGTGGGACCTTCCCATTAATGCTTAC  6536
Query   6537  ACCACGGGCCCCCTGTACTCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTG  6596
Sbjct   6537  ACCACGGGCCCCCTGTATCCCCCTTCTGCGCCGAACATACACGTTTCGCGCTATGGAGGGTG  6596
Query   6597  TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACITCCACTACGT-ATCGGGTAT  6655
Sbjct   6597  TCTGCAGAGGAATATGTGGAGATAAGGCGAGTGGGGGACITCCACTACGTGA-CGGGTAT  6655
Query   6656  GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATT  6715
Sbjct   6656  GACTACTGACAATCTCAAATGCCCGTGCCAGGTCCCATCGCCGAATTTTTCACAGAATT  6715
Query   6716  GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT  6775
Sbjct   6716  GGACGGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT  6775
Query   6776  ATCATTACAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCCAATTACCTTGCAGGCCGA  6835
Sbjct   6776  ATCATTACAGAGTAGGACTCCACGAATACCCGGTAGGGTGCCAATTACCTTGCAGGCCGA  6835
Query   6836  ACCGGACGTAGCGTGTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC  6895
Sbjct   6836  ACCGGACGTAGCGTGTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC  6895
Query   6896  GGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGTAGCC  6954
Sbjct   6896  GGCCGGGCGAAGGTGGCGAG-GGGATACCCCTTCTGTGGCCAGCTCCTCGGTAGCC  6954
Query   6955  AGCTGTCCGCTCCATCTCTCAAGGCAACTTGACCCGCCAACCATGACTCCCTGACGCGC  7014
Sbjct   6955  AGCTATCCGCTCAATCTCTCAAGGCAACTTGACCCGCTAACCATGACTCCCTGATGCTG  7014
Query   7015  AGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGCGGCAACATCACCAGGGTTG  7074
Sbjct   7015  AGCTCATAGAGGCAACCTCCTATGGAGGCAGGAGATGGCGGCAACATCACCAGGGTTG  7074
Query   7075  AGTCAGAGAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATG  7134
Sbjct   7075  AGTCAGAAAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGAGC  7134
Query   7135  AGCGGGAGGTTCCGTACCTGCAGAAATTTCTGCGGAAGTCTCGGAGATTCCGCCGGGCC  7194
Sbjct   7135  AGCGGGAGATCTCCGTACCCGAGAAATCTGCGGAAGTCTCGGAGATTCCGCCAGGCC  7194
Query   7195  TGCCCGCTGTGGCGCGGCGGACTACAACCCCGCTAGTAGAGACGTGGAAAAAGCCTG  7254
Sbjct   7195  TGCCCGTTTGGCGCGGCGGACTATAACCCCGCTAGTAGGACGTGGAAAAAGCCTG  7254
Query   7255  ACTACGAACCACTGTGGTCCATGGCTGCGCGCTACCACTCCACGGTCCCGCTCTGTGCG  7314
Sbjct   7255  ACTACGAACCACTGTGGTCCATGGCTGTCGCTTCCACTCCAAAGTCCCGCTCTGTGCG  7314
Query   7315  CTCGCCCTCGGAAAAAGCGGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGG  7374
Sbjct   7315  CTCGCCCTCGGAAGAAGCGACGGTGGTCTCACTGAATCAACCTATCTACTGCCTTGG  7374
Query   7375  CCGAGCTTGGCACCAAAAGTTTTTGGCAGCTCCTCAACTTCGGCATTACGGGCGACAATA  7434
Sbjct   7375  CCGAGCTCGCCACCCAGAGCTTTGGCAGCTCCTCAACTTCGGCATTACGGGCGACAATA  7434
Query   7435  CGACACATCTCTTGAGCCGCCCTTCTTGCGTGGCGCGCTGACTCCGACGTTGAGTCTCT  7494

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Sbjct	7435	CGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCCGACTCCGACGCTGAGTCTCT	7494
Query	7495	ATTCCTCCATGCTGAGGGGGAGCCTGGGGAATCCGGATCTCAGCGACGGGTCAT	7554
Sbjct	7495	ATTCCTCCATGCTGAGGGGGAGCCTGGGGAATCCGGATCTCAGCGACGGGTCAT	7554
Query	7555	GGTCACAGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATT	7614
Sbjct	7555	GGTCACAGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTACT	7614
Query	7615	CCTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGGAAGAACAAAACTGCCATCAACG	7674
Sbjct	7615	CTTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGGAAGAACAAAACTGCCATCAATG	7674
Query	7675	CCTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCCTTACGCGAGTG	7734
Sbjct	7675	CCTAAGCAACTCGTTGCTACGTCACCAATTTGGTGTATTCCACCCTTACGCGAGTG	7734
Query	7735	CTTGCCAAAGGCAGAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Sbjct	7735	CTTGCCAAAGGCAGAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Query	7795	AGGACGTGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGTCTATCCG	7854
Sbjct	7795	AGGACGTACTCAAGGAGGTTAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGTCTATCCG	7854
Query	7855	TAGAGGAAGCTTGACGCTTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGG	7914
Sbjct	7855	TAGAGGAAGCTTGACGCTTGACGCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGG	7914
Query	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGCCGTAGGCCACATCAACTCCGTGTGGAAG	7974
Sbjct	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGCCGTAAACCACATCAACTCCGTGTGGAAG	7974
Query	7975	ACCTTCTGGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAAGAACGAGGTTT	8034
Sbjct	7975	ACCTTCTGGGAAGCAATGTAAACCAATAGACACTACCATCATGGCTAAGAACGAGGTTT	8034
Query	8035	TCGCGTTTCAGCCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCGCCGACC	8094
Sbjct	8035	TCGCGTTTCAGCCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCGCCGATC	8094
Query	8095	TGGCGTGCCTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTG	8153
Sbjct	8095	TGGCGTGCCTGTGCGAAAAGATGGCTTGTACGACGTGGTTA-CAAAGCTCCCCCTG	8153
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8213
Sbjct	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8213
Query	8214	GTGCAAGCGTGGAAAGTCCAAGAAACCCCGATGGGGTTCTCGTATGATACCCGCTGTTT	8273
Sbjct	8214	GTGCAAGCGTGGAAAGTCCAAGAAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTT	8273
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333
Sbjct	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333
Query	8334	CTGGACCCCCAAGCCCGGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8334	CTCGACCCCCAAGCCCGGTGGCCATCAAGTCCCTCACCAGGAGGCTTTATGTTGGGGGC	8393
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGGATGCGCGGAGCGGCGTA	8453
Sbjct	8394	CCTCTTACCAATTCAAGGGGGGAGAACTGCGGCTATCGAGGTGCGCGGAGCGGCGTA	8453
Query	8454	CTGACAACCTAGCTGTGGTAACACCTCACTTGTACATCAAGGCCCGGGCAGCCTGTCGA	8513
Sbjct	8454	CTGACAACCTAGCTGTGGTAACACCTCACTTGTACATCAAGGCCCGGGCAGCCTGTCGA	8513
Query	8514	GCCGAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Sbjct	8514	GCCGAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Query	8574	GAAAGTGCGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACCGAGGCTATGACC	8633

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Sbjct  8574  GAAAGCGCGGGGTCTCAGGAGGACGCGCGAGCCTTGAGAGCCTTCACGGAGGCTATGACC  8633
Query   8634  AGGTACTCCGccccccccccccccccACAACAGAAATACGACTTGGAGCTTATAACA  8693
Sbjct  8634  AGGTACTCCGCCCCCCTGGGGACCCCCACAACAGAAATACGACTTGGAGCTCATAACA  8693
Query   8694  TCATGCTCTCCAAAGTGTGAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTT  8753
Sbjct  8694  TCATGCTCTCCAAAGTGTGAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTT  8753
Query   8754  ACCCGTGACCCCTACAACCCCCCTCGCGAGAGCGCGTGGGAGACAGCAAGACACACTCCA  8813
Sbjct  8754  ACCCGTGACCCCTACAACCCCCCTCGCGAGAGCTGGGTGGGAGACAGCAAGACACACTCCA  8813
Query   8814  GTCAATTCTGGCTAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATA  8873
Sbjct  8814  GTCAATTCTGGCTAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATA  8873
Query   8874  CTGATGACCCATTTCITTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC  8933
Sbjct  8874  CTGATGACCCATTTCITTAGCGTCTCATAGCCAGGGACAGCTTGAACAGGCCCCGAT  8933
Query   8934  TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACTTGGATCTACCTCCAATCATTCAA  8993
Sbjct  8934  TGGGAGATCTACGGGGCCTGCTACTCCATAGAACCACTTGATCTACCTCCAATCATTCAA  8993
Query   8994  AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG  9053
Sbjct  8994  AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGG  9053
Query   9054  GTGGCCGATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGGAGCTTGGAGACACCGGGCC  9113
Sbjct  9054  GTGGCCGATGCCTCAGAAAACCTTGGGGTACC GCCCTTGGAGCTTGGAGACACCGGGCC  9113
Query   9114  CGGAGCGTCCGGCTAGGCTTCTGTCCAGAGGAGCAGGGCTGCCATATGTGGCAAGTAC  9173
Sbjct  9114  CGGAGCGTCCGGCTAGGCTTCTGTCCAGAGGAGCAGGGCTGCCATATGTGGCAAGTAC  9173
Query   9174  CTCCTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGGCGCTGGCCGG  9233
Sbjct  9174  CTCCTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGGCGCTGGCCAG  9233
Query   9234  CTGGACTTGTCCGGTTGGTTACGGCTGGCTACAGCGGGGGAGACATTATCACAGCGTG  9293
Sbjct  9234  CTGGACTTGTCCGGTTGGTTACGGCTGGCTACAGCGGGGGAGACATTATCACAGCGTG  9293
Query   9294  TCTCATGCCGGCCCCGCTGGTTCTGGTTTTCCTACTCTCTGCTGCGTGCAGGGGTAGGC  9353
Sbjct  9294  TCTCATGCCGGCCCCGCTGGATCTGGTTTTCCTACTCTCTGCTGCTGCGAGGGGTAGGC  9353
Query   9354  ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCCT  9401
Sbjct  9354  ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCCT  9401

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>dbj|E66593.1| Hepatitis C virus asialoglycoprotein
Length=9401

Score = 1.520e+04 bits (8231), Expect = 0.0
Identities = 9018/9408 (95%), Gaps = 14/9408 (0%)
Strand=Plus/Plus

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Query   1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCIGTGAGGAAGTACTG  60
Sbjct   1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCIGTGAGGAAGTACTG  60
Query   61      TCTTCACGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGACAGCTCCAGGA-  120
Sbjct   61      TCTTCACGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGACAGCTCCAGGAC  120
Query   121      cccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG  180
Sbjct   121      CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG  180
Query   181      GACGACCGGGTCTTTCTTGGATAAACCCGCTCAATGCCTTGGAGATTGGGGCTGCCCCC  240
Sbjct   181      |||||

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Sbjct	181	GACGACCGGGTCTTCTTGGATCAACCCGCTCAATGCCITGGAGATTITGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGAAAGGCCCTTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGAAAGGCCCTTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGAGTGCCCGGAGGCTCTGAGACCGTGACCATGAGCAGCAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGAGTGCCCGGAGGCTCTGAGACCGTGACCATGAGCAGCAATCCTAAAC	360
Query	361	CTCAAGAAAAAACCAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCGCGGGT	420
Sbjct	361	CTCAAAAAAACCAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCGCGGGT	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Sbjct	481	GCGGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTATG	600
Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTATG	600
Query	601	GCAATGAGGGTTCGCGGTTGGCGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGCT	660
Sbjct	601	GCAATGAGGGTTCGCGGTTGGCGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCGGCGTAGGTCGCGCAATTGGGTAAGGTGATCGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCGGCGTAGGTCGCGCAATTGGGTAAGGTGATCGATACCCCTTA	720
Query	721	CGTGGGCTTCGCCGACCTCATGGGTTACATACCGCTCGTCGGCGCCCTCTTGGAGGGC	780
Sbjct	721	CGTGGGCTTCGCCGACCTCATGGGTTACATACCGCTCGTCGGCGCCCTCTTGGAGGGC	780
Query	781	CTGCCAGGGCCCTGGCGATGGCGTCCGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGATGGCGTCCGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCTGGTTGCTCTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGGCTGACTG	900
Sbjct	841	GGAACCTTCTGGTTGCTCTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGGCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCAGCAATCTCGGGGCTTACCATGTACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCAGCAATCTCGGGGCTTACCACGTACCAATGATT	960
Query	961	GCCTTAACCTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCTTAACCTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCTTTCGCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCTTTCGCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACAGGGACGGCAAACTCCCCACAACGACGCTTCGACGTGATGATGATGCTGTGTG	1140
Sbjct	1081	CCACAGGGATGGCAAACTCCCCGACGACGCTTCGACGTGATGATGATGCTGTGTG	1140
Query	1141	GAGGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGCTGTGCTTCTTG	1200
Sbjct	1141	GAGGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTATGCGGGCTGTGCTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TCGGCCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCT	1260
Query	1261	CTATCTATCCCGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGCCATATAACGGGTCACCGATGGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCTTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380


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Sbjct 1321 CCCCTACGACGCGCTTGGTAATGGCTCAGCTGCTCCGGATCCCAAGCCATCTTGGACA 1380
Query 1381 TGATCGCTGGTGCTCACTGGGGAGTCTCTGGCGGGCATAGCGTATTTCCTCATGGTGGGGA 1440
Sbjct 1381 TGATCGCTGGTGCTCACTGGGGAGTCTCTGGCGGGCATAGCGTATTTCCTCATGGTGGGGA 1440
Query 1441 ACTGGGCGAAGGTCCTGGTAGTGTCTGCTGCTATTTCGCGCGCTGCAGCGGAAACCCAGC 1500
Sbjct 1441 ACTGGGCGAAGGTCCTGGTAGTGTCTGCTGCTATTTCGCGCGCTGCAGCGGAAACCCAGC 1500
Query 1501 TCACCGGGGGAATGCGCGCCGACACCGGCTGGGCTTGTGTGCTCTCCTTACACAGGCG 1560
Sbjct 1501 TCACCGGGGGAATGCGCGCCGACACTGTGTCTGGATTGTGTAGCTCTCTCGACACAGGCG 1560
Query 1561 CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT 1620
Sbjct 1561 CCAAGCAGAACCTCCAGCTGATCAACACCAACGGCAGTTGGCACCTCAATAGCAGCGGCC 1620
Query 1621 TGAATTGCAATGAAAGCCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT 1680
Sbjct 1621 TGAATGCAATGATAGCCCTAACACCGGCTGGTTGGCAGGGCTTTCTATCACCACAAAT 1680
Query 1681 TCAACTCTTCAGGCTGTCTCTGAGAGGTTGGCCAGCTGCCGACGCTTACCGATTITGGCC 1740
Sbjct 1681 TCAACTCTTCAGGCTGTCTCTGAGAGGCTAGCCAGCTGCCGACCCCTTACCGATTITGGCC 1740
Query 1741 AGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCTCTGCAGAACGCGCCCTACTGCT 1800
Sbjct 1741 AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCGCCGACGAGCGCCCTACTGCT 1800
Query 1801 GGCATACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCGGTAT 1860
Sbjct 1801 GGCATACCCCCAAACCTTGGCGTATTGTGCCCGCAAGAGTGTGTGTGGTCCGGTAT 1860
Query 1861 ATTGCTTCACTCCAGCCCGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCTTACCT 1920
Sbjct 1861 ATTGCTTCACTCCAGCCCGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCCACCT 1920
Query 1921 ACAGCTGGGGTGCAATGATACGGATGTCTTCGTCTTAAACAACACCGGCCACCGCTGG 1980
Sbjct 1921 ACAGCTGGGGTGAAAAATGATACGGAGCTTTCGTCTTAAACAATACAGGCCACCGCTGG 1980
Query 1981 GCAATTGGTTCGGTTGTACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGC 2040
Sbjct 1981 GCAATTGGTTCGGTTGTACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGC 2040
Query 2041 CCCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGTCTGCCCACTGATTGCTTCC 2100
Sbjct 2041 CTCCTTGTGTATCGGAGGGGCGGGCAACAACACCTGCACTGCCCACTGATTGCTTCC 2100
Query 2101 GCAAAATCATCGGAAGCCACATACTCTCGGTGCGGCTCCGCTCCCTGGATTACACCCAGGT 2160
Sbjct 2101 GCAAGCATCTCGGAGCCACATACTCTCGGTGCGGCTCCGCTCCCTGGATCACACCCAGGT 2160
Query 2161 GCATGGTCGACTACCCGATATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT 2220
Sbjct 2161 GCCTGGTCGACTACCCGATATAGGCTTTGGCATTATCCTTGTACCATCAACTACACCATAT 2220
Query 2221 TCAAAGTCAGATGTACGTGGGAGGGTGCAGCACAGGCTGGAAGCGGCTGCAACTGGA 2280
Sbjct 2221 TTAATAATCAGATGTACGTGGGAGGGTGCAGCACAGGCTGGAAGCTGCTTGCACATGGA 2280
Query 2281 CGCGGGGCGAAGCTGTGATCTGGAAGACAGGGACAGGCTCCGAGCTCAGCCCGTTGCTGC 2340
Sbjct 2281 CGCGGGGCGAAGCTGTGATCTGGAAGACAGGGACAGGCTCCGAGCTCAGCCCGTTGCTGC 2340
Query 2341 TGTCACCACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCA 2400
Sbjct 2341 TGACCACTACACAGTGGCAGGTCTTCCGTGTTCTTTACAAACCCCTACGAGCCTTGTCCA 2400
Query 2401 CCGGCTCATCCACCTCCACAGAACATTGTGGACGTGCAGTACTTGTACGGGTAGGGT 2460
Sbjct 2401 CCGGCTCATCCACCTCCACAGAACATTGTGGACGTGCAGTACTTGTACGGGTAGGGT 2460
Query 2461 CAAGCTCGCGTCTGGGCCATTAAATGGGAGTACGTCGTTCTCTGTTCTTCTGCTTG 2520
Sbjct 2461 CAAGCTCGCGTCTGGGCCATTAAATGGGAGTACGTCGTTCTCTGTTCTTCTGCTTG
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Sbjct	2461	CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTTGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTTGATGATGCTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCGGGACGACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTTAATGCAGCATCCCTGGCGGGACGACGGTCTTGTAT	2640
Query	2641	CCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGAGCGG	2700
Sbjct	2641	CCTTCTCTCGTGTCTTCTGCTTTGCATGGTATTGAAGGGTAAGTGGGTGCCCGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCTCTCTCTGCTCTTGGCGTGGCTCAGCGGG	2760
Sbjct	2701	TCTACACCTTCTACGGGATGTGGCTCTCTCTGCTCTTGGCGTGGCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCGCGTCGTGTGGCGCGGTGTCTTGTGCGGGTAA	2820
Sbjct	2761	CGTACGCGCTGGACACGGAGGTGGCGCGTCGTGTGGCGGTGTGTCTTGTGCGGGTGA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCTTGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACACGTC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGATTCCCCCTCAACGTC	2940
Query	2941	GGGGGGGCGCGATGCGGTCATCTTACTCATGTGTG-TAGTACACCCGACCTGGTATT	2999
Sbjct	2941	GAGGGGGGCGCGACGCCGTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTATT	2999
Query	3000	GACATCACCAAACTACTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Sbjct	3000	GACATCACCAAAATGTGCTGGCCGTCCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Query	3060	CTTAAAGTCCCTACTTCTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGG	3119
Sbjct	3060	CTTAAAGTACCTACTTTGTGCGCGTCCAAGGCCTTCTCCGGTCTGCGCGCTAGCGCGG	3119
Query	3120	AAGAT-AGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3120	AAGATGATC-GGAGGCCATTACGTGCAAAATGGTCATCATTAAAGTTAGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAAACAATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCTGCGAGA	3238
Sbjct	3179	CACCTATGTTTATAAACAATCTCACTCTCTTCGGGACTGGGCGCACAACGGCTTGCAGA	3238
Query	3239	TCGTGGCGTGGCTGTGGAAACAGTCGCTTCTCCCGAATGGAGACCAAGCTCATACAGTG	3298
Sbjct	3239	TCGTGGCGTGGCTGTAGAGCCAGTCGCTTCTCCCAAATGGAGACCAAGCTCATACAGTG	3298
Query	3299	GGGGGCAGATACCGCCGCGTGGGTGACATCATCAAGGGTGTGCCGCTCTGCGCCGTAG	3358
Sbjct	3299	GGGGGCAGATACCGCCGCGTGGGTGACATCATCAAGGGTGTGCCGCTTGTCTGCGCCGAG	3358
Query	3359	GGGCGAGAGATACTGCTTGGGCGAGCCGACGGAATGGTCTCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359	GGGCGGAGAGATACTGCTCGGGCGAGCCGATGGAATGGTCTCAAGGGGTGGAGGTTGCT	3418
Query	3419	GCGGCCCATACCGCGGTACGCCAGCAGACGAGAGGCGCTCTAGGGTGATAATACCAAG	3478
Sbjct	3419	GCGGCCCATACCGCGGTACGCCAGCAGACGAGAGGCGCTCTAGGGTGATAATACCAAG	3478
Query	3479	CCTGACTGGCCGGGACAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Sbjct	3479	CCTAACTGGCCGGGACAAAACCAAGTGGAGGTGAGGTCCAGATTGTGTCAACTGCTAC	3538
Query	3539	CCAAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	CCAAACCTTCTTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATACCCCAAGGGTCTGTCAATCAGATGTATACCAATGTGGACCA	3658

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Sbjct 3599 AACGAGGACCATCGCGTCACCCAAGGGTCTGTGATCCAGATGTATACCAATGTAGACCA 3658
Query 3659 AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTTGACACCGCTGACTTCGGG 3718
Sbjct 3659 AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTAGCGCTCATTTGACACCGCTGCATTTGGG 3718
Query 3719 CTCCTCGGACCTTTACTGTGTCACGAGGCACGCCGATGTCAITTCCTGTCGCGCGGGGAGG 3778
Sbjct 3719 CTCCTCGGACCTTTACTGTGTCACGAGGCACGCCGATGTCAITTCCTGTCGCGCGGGGAGG 3778
Query 3779 TGATAGCAGGGGTAGCCTGCTTTCGCCCGCGGCCATTTCCTACTTTGAAAGGCTCCTCGGG 3838
Sbjct 3779 TGATAGCAGGGGAGCCTGCTGTCGCCCGCGGCCATTTCCTACTTTGAAAGGCTCCTCGGG 3838
Query 3839 GGGTCCGCTGTGTGTCGCCCGCGGACACGCCGTGGGCTATTTCAGGGCCGCGGTGTGCAC 3898
Sbjct 3839 GGGTCCGCTGTGTGTCGCCCGCGGACACGCCGTGGGCTATTTCAGGGCCGCGGTGTGCAC 3898
Query 3899 CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACTAGGGACAACCATGAG 3958
Sbjct 3899 CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACTAGAGACAACCATGAG 3958
Query 3959 ATCCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC 4018
Sbjct 3959 GTCCCCGGTGTTCACGGATAACTCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGC 4018
Query 4019 CCACCTGCATGCTCCACACCGCAGCGGTAAAGAGCACCAAGTCCCGGCTGCGTACGACG 4078
Sbjct 4019 TCACCTTCATGCTCCACAGGCAGCGGCAAAAGACCAAGGTCGCGCTGCATATGACAG 4078
Query 4079 CAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC 4138
Sbjct 4079 TCAGGGCTATAAGGTGCTAGTACTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC 4138
Query 4139 TTACATGTGCCAAGGCCATGGGGTGTGATCCTAATATCAGGACCGGGGTGAGAACAAATTAC 4198
Sbjct 4139 TTACATGTGCCAAGGCTCATGGGATCGATCCTAATATCAGGACCGGGGTGAGAACAAATTAC 4198
Query 4199 CACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGGCCGACGGCGGGTGCTC 4258
Sbjct 4199 CACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGGCCGACGGCGGGTGCTC 4258
Query 4259 AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT 4318
Sbjct 4259 GGGGGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT 4318
Query 4319 CTTGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTCGGGGGCGAGACTGGTTGTGCT 4378
Sbjct 4319 CTTGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTCGGGGGCGAGACTGGTTGTGCT 4378
Query 4379 CGCCACTGCTACCCCTTCGGGCTCCGTCAGTGTGCCATCTCTAATATCAGGAGGAGGTGC 4438
Sbjct 4379 CGCCACCGCACCCCTTCGGGCTCCGTCAGTGTGCCCATCTCCAACATCAGGAGGAGGTGC 4438
Query 4439 TCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA 4498
Sbjct 4439 TCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAA 4498
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Sbjct 4499 GGGGGGAGACATCTCATCTTCTGTGATCAAGAAGAAGTGCAGCAACTCGCCGCAAA 4558
Query 4559 GCTGTGCGCATTTGGGCATCAATGCCGTGGCCTACTACCGGGTCTTGACGTGTCTGTGAT 4618
Sbjct 4559 GCTGTGCGCATTTGGGCATCAATGCCGTGGCCTACTACCGGGTCTTGACGTGTCTGTGAT 4618
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Sbjct 4619 CCCGACCAGCGGCGATGTTGTGTCGTGTCGACCGATGCTCTCATGACCGGCTATACCGG 4678
Query 4679 CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCT 4738
Sbjct 4679 CGACTTCGACTCGGTGATAGACTGCAATACGTGTGTCACTCAGACAGTCGATTTACGCT 4738
Query 4739 TGACCTTACCTTTACCAATTGAGACAACACGCTCCCCCAGGATGCTGTCTCAGGACTCA 4798
Sbjct 4739 TGACCTTACCTTTACCAATTGAGACAACACGCTCCCCCAGGATGCTGTCTCAGGACTCA 4798
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Sbjct	4739	TGACCCCTACCTTCACCAATTGAGACAATCACGCTCCCCAGGATGCTGCTCCCGCACTCA	4798
Query	4799	ACGCCGGGGCAGGACTTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACC	4858
Sbjct	4799	ACGTGCGGGCAGGACTTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACC	4858
Query	4859	GGCCCCCTCGGCGATGTTCTGACTCGTCCGTCTCTGTGAGTGCTATGACGGGGCTGTGC	4918
Sbjct	4859	GGCCCCCTCGGCGATGTTCTGACTCGTCCGTCTCTGTGAGTGCTATGACGAGGCTGTGC	4918
Query	4919	TTGGTATGAGCTCACGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919	TTGGTATGAGCTCACGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAAATTTTGGGAGGGCGCTTTTACGGGCTCAC	5038
Sbjct	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAAATTTTGGGAGGGCGCTTTTACAGGCTCAC	5038
Query	5039	TCATATAGATGCCCATTTTTATCCAGACAAAGCAGAGTGGGGAGAACCTTTCCTTACCT	5098
Sbjct	5039	TCATATAGATGCCCATTTTTATCCAGACAAAGCAGAGTGGGGAGAACCTTTCCTTACCT	5098
Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCA	5158
Sbjct	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCA	5158
Query	5159	GATGTGGAAGTGTGTTGATCCGCCTTAAACCCACCCCTCCATGGGCCAACACCCCTGCTATA	5218
Sbjct	5159	GATGTGGAAGTGTGTTGATTCGCCTCAAGCCACCCCTCCATGGGCCAACACCCCTGCTATA	5218
Query	5219	CAGACTGGGCGCTGTTTCTGAGATGAAGTCACCTGACGCACCCCAATCACCACATACATCAT	5278
Sbjct	5219	CAGACTGGGCGCTGTTTCTGAGATGAAATCACCTGACGCACCCAGTCACCAATACATCAT	5278
Query	5279	GACATGCATGTGCGGCGACCTGGAGGTCGTCACGAGCACTGGGTGCTCGTGGCGGGCT	5338
Sbjct	5279	GACATGCATGTGCGGCGACCTGGAGGTCGTCACGAGCACTGGGTGCTCGTGGCGGGCT	5338
Query	5339	CCTGGCTGCTTGGCGCGTATTGCTGTCAACAGGCTGCGTGGTCATAGTGGCAGGAT	5398
Sbjct	5339	CCTGGCTGCTTGGCGCGTATTGCTGTCAACAGGCTGCGTGGTCATAGTGGCAGGAT	5398
Query	5399	CGTCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGTTCTCTACC-AGGAGTTCG	5457
Sbjct	5399	CGTCTTGTCGGGAAGCCGGCAATCATACCTGACAGGGAAGTCTCTACCAG-AGTTCG	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCAGCAAGGGATGATGCTCGCG	5517
Query	5518	AGCAGTTCAAGCAGAGAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCATCAGAGGTTA	5577
Sbjct	5518	AGCAGTTCAAGCAGAGAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGTCAGCAGAGGTTA	5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGCTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578	TCGCCCTGCTGTCCAGACCAACTGGCAAACTCGAGACCTTCTGGGCGAAGCATATGT	5637
Query	5638	GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTGAACCCG	5697
Sbjct	5638	GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTGAACCCG	5697
Query	5698	CAATTGCTTCATTGATGGCTTTTACAGCTGCGCTGACCGCCACTAACCCATGGCCAAA	5757
Sbjct	5698	CAATTGCTTCATTGATGGCTTTTACAGCTGCTGTACCGCCCACTAACCCATAGCCAAA	5757
Query	5758	CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCGC	5817
Sbjct	5758	CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCGC	5817
Query	5818	CTACTGCTTTTGGGGTGTGGCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	CTACTGCTTTTGGGGTGTGGCTAGCTGGCGCCGCCATCGGCAGGTGTGGACTGGGGA	5877
Query	5878	AGGTCTCGTGGACATTCTTGACAGGGTATGGCGCGGGCGTGGCGGAGCTCTTGATAGCAT	5937

Sbjct	5878	AGGTCTCATAGACATCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTTGGTCAATCTACTGCCCGCCA	5997
Query	5998	TCCTCTCGCCTTGAGGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGCGCAG	6057
Sbjct	5998	TCCTCTCGCCTTGAGGCCCTTGTAGTCGGTGTGGTCTGTCAGCAATACTGCGCCGCGCAG	6057
Query	6058	TTGGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGG	6117
Sbjct	6058	TTGGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTGATAGCCTTCGCCCTCCCGGG	6117
Query	6118	GGAACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGCGACGCGCCCGCTCACTG	6177
Sbjct	6118	GGAACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGCGACGTGCCCGCGCTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGCATGCATCAGTGGATAAGCT	6237
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Query	6238	CGGAGTGTACCATCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
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Sbjct	6358	TCCCTTTGTGTCTTCCGACGCGGGGTATAGGGGGTCTGGCGAGTG-GACGGCATCATG	6416
Query	6417	CACACTTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAACCGGACGATGAGG	6476
Sbjct	6417	CACACTTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAACCGGACGATGAGG	6476
Query	6477	ATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAACGCCTAC	6536
Sbjct	6477	ATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACCTTCCCAATTAATGCCTAC	6536
Query	6537	ACCACGGGCCCCGTGACTCCCTTCCCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537	ACCACGGGCCCCGTGATCCCCCTTCCCTGCGCCGAACACACGTTTCGCGCTATGGAGGGTG	6596
Query	6597	TCGTCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTAT	6655
Sbjct	6597	TCGTCAGAGGAATATGTGGAGATAAAGCAGGTGGGGGACTTCCACTACGTGA-CGGGTAT	6655
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATTCGCCGAATTTTTCACAGAATT	6715
Sbjct	6656	GACTACTGACAATCTCAAATGCCCGTGCCAGGTCCCATTCGCCGAATTTTTCACAGAATT	6715
Query	6716	GGACGGGTTGCGCTTACACAGGTTTTCGCGCCCTTTCGAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6716	GGACGGGTTGCGCTTACATAGGTTTTCGCGCCCTTTCGAAGCCCTTGCTGCGGGAGGAGGT	6775
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Sbjct	6776	ATCAITCAGAGTAGGACTCCACGAATACCCGTTAGGTTGCATTAACCTTTCGAGCCCGA	6835
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCAATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Sbjct	6836	ACCGGACGTAGCCGTGTTGACGTCCAATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCC	6954
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Query	6955	AGCTGTCGCTCCATCTCTCAAGGCAACTTGACCGCCCAACCATGACTCCCTTGACGCGG	7014
Sbjct	6955	AGCTATCCGCTCCATCTCTCAAGGCAACTTGACCGCTTAACCATGACTCCCTTGATGCTG	7014
Query	7015	AGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGCGGCAACATACCAAGGGTTG	7074

Sbjct	7015	AGCTCATAGAGGCCAACCTCCTATGGAGGACAGAGATGGGCGGCAACATCACCAGGGTTG	7074
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Sbjct	7195	TGCCCGTTTGGGCGCGGCCGGACTATAACCCCCCGCTAGTGGAGACGTGGAAGAAAGCCCG	7254
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Sbjct	7255	ACTACGAACACCTGTGGTCCATGGCTGTCCGCTTCACCTCCAAAGTCCCTCTCTGTGC	7314
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Query	7375	CCGAGCTTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
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Query	7435	CGACAACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCTCT	7494
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Sbjct	8574	GAAAGTCGCGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGGAGGCTATGACC	8633
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Sbjct	8634	AGGTACTCCGCCCCCTTGGGACCCCCACAACAGAATACGACTTGGAGCTTATAACA	8693
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Sbjct	8874	CTGATGACCCATTTCITTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTGAT	8933
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Query	9174	CTCTTCAACTGGGCAGTAAGAACAAGCTCAAACTCACTCCAATAGCGGCGCTGGCCGG	9233
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Query	9294	TCTCATGCCGGGCGCGCTGGTTCTGGTTTTCGCTTACTCTGCTCGCTGACGGGGTAGGC	9353

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Sbjct  9294  TCTCATGCCCGGCCCGCTGGATCTGGTTTTGGCTACTCTGCTTGCTGCAGGGGTAGGC  9353
Query   9354  ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCT  9401
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Sbjct   9354  ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCT  9401

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>gb|I81885.1|I81885 Sequence 9 from patent US 5712087
Length=9401

Score = 1.520e+04 bits (8231), Expect = 0.0
Identities = 9018/9408 (95%), Gaps = 14/9408 (0%)
Strand=Plus/Plus

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Query  121      GGGGGGTCGCCGGGAGGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG  180
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Query  181      GACGACCGGGTCTTTCTTGGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC  240
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Query  301      GTGCTTGCAGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCAGCAATCCTAAAC  360
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Query  841      GGAACCTTCTCGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGGCTGACTG  900
Sbjct  841      GGAACCTTCTCGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGGCTGACTG  900

Query  901      TGCCCGCTTCAGCTACCAAGTGCAGCAATCTTCGGGGGCTTTACCATGTACCAATGATT  960
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Sbjct	901	TGCCCGCTTCGGCCTACCAAGTGCACAACTCCACGGGGCTTTACCAAGTACCAATGATT	960
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Sbjct	1021	TCCCTTGC GTTCGTGAGGGCAACGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGG	1080
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Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCTGCAACTGGA	2280
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Sbjct	2641	CCTTCTCTGTTCTTCTGCTTTGCAATGTTATTGAAGGGTAAGTGGGTGCCCGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGAATGGGCTCTCCTCCTGCTCCTGCTGGCGTTCGCTCAGCGGG	2760
Sbjct	2701	TCTACACCTTCTACGGGAATGGGCTCTCCTCCTGCTCCTGTTGGCGTTCGCCCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAAGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGCGGGTAA	2820
Sbjct	2761	CGTACGCGCTGGACACGGAAGTGGCCGCTCGTGTGGCGGTGTGTTCTTGTGCGGGTGA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGACCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTGAAGCGCAACTGCACGTGTGGATTCCCCCCTCAACGTCC	2940
Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCTGGTATTT	2999
Sbjct	2941	GAGGGGGGCGCGCGCGCTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTT	2999
Query	3000	GACATCACCAAACTACTCTGGCCATCTTCGGACCCCTTGGATTCTTCAAGCCAGTTTG	3059
Sbjct	3000	GACATCACCAAAATGTGCTGGCCGCTCTTCGGACCCCTTGGATTCTTCAAGCCAGTTTG	3059
Query	3060	CTTAAAGTCCCTACTTCTGTCGCGTTTCAAGGCCTTCTCCGGATCTGCGCGTAGCGCGG	3119
Sbjct	3060	CTTAAAGTACCTTACTTTGTCGCGTCCAAGGCCTTCTCCGGTCTGCGCGTTAGCGCGG	3119
Query	3120	AAGAT-AGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3120	AAGATGATC-GGAGGCCATTACGTGCAAAATGGTCATCATTAAGTTAGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAACATCTCACCCCTCTTCGAGACTGGGCGCAACAGCGCTTGCAGGA	3238

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Sbjct 3179 CACCTATGTTTATAACCATCTCACTCCTCTTCGGGACTGGGCGCACACGGCTTGCAGAGA 3238
Query 3239 TCTGGCCGTGGCTGTGGAAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG 3298
Sbjct 3239 TCTGGCCGTGGCTGTAGAGCCAGTCGTCTTCTCCCAATGGAGACCAAGCTCATCACGTG 3298
Query 3299 GGGGGCAGATACCGCCGCGTGCAGTACATCATCAACGGCTTGCCTGCTCTGCGCCGTAG 3358
Sbjct 3299 GGGGGCAGATACCGCCGCGTGCAGTACATCATCAACGGCTTGCCTGTTTCCGCCCGCAG 3358
Query 3359 GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGTTGCT 3418
Sbjct 3359 GGGCCGGGAGATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGTTGCT 3418
Query 3419 GGCGCCCATCACGGCGTACGCCAGCAGACAGAGGGCTCTTAGGGTGATAATCACCAG 3478
Sbjct 3419 GGCGCCCATCACGGCGTACGCCAGCAGACAGAGGGCTCTTAGGGTGATAATCACCAG 3478
Query 3479 CTTGACTGGCCGGGACAAAACCAAGTGGAGGGTGGAGTCCAGATCGTGTCAACTGCTAC 3538
Sbjct 3479 CTTAAGTGGCCGGGACAAAACCAAGTGGAGGGTGGAGTCCAGATGTGTCAACTGCTGC 3538
Query 3539 CCAAACCTTCTCGGCAACGTGCATCAATGGGGTATGCTGAGACTGCTACACGGGGCCGG 3598
Sbjct 3539 CCAAACCTTCTCGGCAACGTGCATCAATGGGGTGTGCTGAGACTGCTACACGGGGCCGG 3598
Query 3599 AACGAGGACCATCGCATCACCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCA 3658
Sbjct 3599 AACGAGGACCATCGCTCACCAAGGGTCTGTATCCAGATGTATACCAATGTAGACCA 3658
Query 3659 AGACCTTGTGGGCTGGCCCGCTCTCAAGGTTCGGCTCATTGACACCGTGTACCTGCGG 3718
Sbjct 3659 AGACCTTGTGGGCTGGCCCGCTCCGCAAGGTAGCCGCTCATTGACACCGTGTACCTGCGG 3718
Query 3719 CTCTCGGACCTTTAAGTGGTACGAGGACGCGGATGTCAITCCCGTGGCGGGGAGG 3778
Sbjct 3719 CTCTCGGACCTTTAAGTGGTACGAGGACGCGGATGTCAITCCCGTGGCGGGGAGG 3778
Query 3779 TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGGCCATTTCCTACTTTGAAAGGCTCCTCGGG 3838
Sbjct 3779 TGATAGCAGGGGAGCCTGCTGTGCCCCGGGCCATTTCCTACTTTGAAAGGCTCCTCGGG 3838
Query 3839 GGGTCCGCTGTGTGCCCCGGGGACACGCGTGGGCTATTAGGGCCGCGGTGTGCAC 3898
Sbjct 3839 GGGTCCGCTGTGTGCCCCGGGGACACGCGTGGGCTATTAGGGCCGCGGTGTGCAC 3898
Query 3899 CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG 3958
Sbjct 3899 CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG 3958
Query 3959 ATCCCCGGTGTTCACGGACAACCTCCTCTCCACGAGTGCCTCCAGAGCTTCCAGGTGGC 4018
Sbjct 3959 GTCCCCGGTGTTCACGGATAACTCCTCTCCACGAGTAGTGCCTCCAGAGCTTCCAGGTGGC 4018
Query 4019 CCACCTGCATGCTCCACACGGCAGCGGTAAAGGACCAAGGTCCCGGCTGCGTACGACG 4078
Sbjct 4019 TCACCTCCATGCTCCACACGGCAGCGGCAAAAGACCAAGGTCCCGGCTGCATATGACG 4078
Query 4079 CCAGGGCTACAAGGTGTGGTGCACAACCCCTCTGTGCTGCAACGCTGGGCTTTGGTGC 4138
Sbjct 4079 TCAGGGCTATAAGGTGCTAGTACTCAACCCCTCTGTGCTGCAACGCTGGGCTTTGGTGC 4138
Query 4139 TTACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACGGGGGTGAGAACCAATTAC 4198
Sbjct 4139 TTACATGTCCAAGGCTCATGGGATCGATCCTAATATCAGGACGGGGGTGAGAACCAATTAC 4198
Query 4199 CACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGGCCAGCGCGGGTGTCT 4258
Sbjct 4199 CACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGGCCAGCGCGGGTGTCT 4258
Query 4259 AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT 4318
Sbjct 4259 GGGGGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT 4318
Query 4319 CTTGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTCGGGGGGCGAGACTGGTGTGCT 4378
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Sbjct	4319	CTTGGGCATCGGCACCTGTCCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTGTGTGCT	4378
Query	4379	CGCCACTGCTACCCCTTCGGGCTCCGTCCTGTGTCCATCTCTAACATCGAGGAGGTTCG	4438
Sbjct	4379	CGCCACCGCCACCCCTTCGGGCTCCGTCCTGTGCCCCATCCCAACATCGAGGAGGTTCG	4438
Query	4439	TCGTGTCCACCACGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Sbjct	4439	TCGTGTCCACCACGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAA	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCAGCAGCTCGCCCGCAA	4558
Sbjct	4499	GGGGGGGAGACATCTCATCTTCTGTCAATCAAAGAAGAAGTGCAGCAACTCGCCGCAAA	4558
Query	4559	GCTGGTCGATTTGGGCATCAATGCCGTGGCTTACTACCGCGGCTTTCAGCTGCTGTGCTAT	4618
Sbjct	4559	GCTGGTCGATTTGGGCATCAATGCCGTGGCTTACTACCGCGGCTTTCAGCTGCTGTGCTAT	4618
Query	4619	CCCGACCAGCGCGCATGTTGTGCTGCTGTCGACCGCATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCCGACCAGCGCGCATGTTGTGCTGCTGTCGCAACCGATGCCCCATGACCGGCTATACCGG	4678
Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGCTGTGTCACTCAGACAGTCGATTTACGCC	4738
Sbjct	4679	CGACTTCGACTCGGTGATAGACTGCAATACGCTGTGTCAACCAGACAGTCGATTTACGCC	4738
Query	4739	TGACCCCTACCTTTACCAATTGAGACAACACGCTCCCCCAGGATGCTGTCTCCAGGACTCA	4798
Sbjct	4739	TGACCCCTACCTTACCAATTGAGACAATACGCTCCCCCAGGATGCTGTCTCCGCACTCA	4798
Query	4799	ACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGACACGGGGGA	4858
Sbjct	4799	ACGTCGGGCGAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTGTGGACACGGGGGA	4858
Query	4859	GGCCCCCTTCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGTCTATGACGGGGCTGTGC	4918
Sbjct	4859	GGCCCCCTTCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGTCTATGACGAGGCTGTGC	4918
Query	4919	TTGGTATGAGCTACGCCCCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919	TTGGTATGAGCTACGCCCCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCCTCAC	5038
Sbjct	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCCTCAC	5038
Query	5039	TCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACCTTTCCTTACCT	5098
Sbjct	5039	TCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACCTTTCCTTACCT	5098
Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCA	5158
Sbjct	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCA	5158
Query	5159	GATGTGGAAGTGTGTTGATCCGCCCTTAAACCCACCCCTCCATGGGGCAACACCCCTGCTATA	5218
Sbjct	5159	GATGTGGAAGTGTGTTGATTGCCTCAAGCCACCCCTCCATGGGGCAACACCCCTGCTATA	5218
Query	5219	CAGACTGGGCGCTGTTCAGAAATGAAGTCACCTGACGACCCAAATACCAAATACATCAT	5278
Sbjct	5219	CAGACTGGGCGCTGTTCAGAAATGAATCAACCTGACGACCCCAATACCAAATACATCAT	5278
Query	5279	GACATGCATGTCGGCGCACCTGGAGGTCGTCACGAGCACTGGGTGCTGCTTGGCGGGCGT	5338
Sbjct	5279	GACATGCATGTCGGCGCACCTGGAGGTCGTCACGAGCACTGGGTGCTGCTTGGCGGGCGT	5338
Query	5339	CCTGGCTGCTCTGGCCGCGTATTGCCGTGCAACAGGCTGCGTGGTCATAGTGGGAGGAT	5398
Sbjct	5339	CCTGGCTGCTTGGCCGCGTATTGCCGTGCAACAGGCTGCGTGGTCATAGTGGGAGGAT	5398
Query	5399	CGTCTTTGCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTTCTTACC-AGGAGTTTCG	5457
Sbjct	5399	CGTCTTTGCCGGGAAGCCGGCAATATACCTGACAGGGAAGTCTCTTACCAG-AGTTTCG	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517

Sbjct	5458	ATGAGATGGAAGAGTGTCTCAGCACTTACCGTACATCAGCAAGGATGATGCTCGCCG	5517
Query	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCC GCCATGCAGAGGTTA	5577
Sbjct	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCC GTCAGCAGAGGTTA	5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTGGGCGAAGCACATGT	5637
Sbjct	5578	TCGCCCTGCTGTCCAGACCAACTGGCAAACTCGAGACCTCTGGGCGAAGCATATGT	5637
Query	5638	GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638	GGAACCTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCG	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACCTAGGCCAAA	5757
Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCTGTACCAGCCCACTAACCACCTAGGCCAAA	5757
Query	5758	CCCTCCTCTTCAACATAATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCG	5817
Sbjct	5758	CCCTCCTCTTCAACATAATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCG	5817
Query	5818	CTACTGCCTTTTGGGGTGTGGCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	CTACTGCCTTTTGGGGTGTGGCTAGCTGGCGCCGCCATCGGCAGTGTGGACTGGGGA	5877
Query	5878	AGGTCTCTGTGGACATTCTTGACAGGATATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCTCTATAGACATCTTGACAGGATATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938	TCAAGATCATGAGCGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCGCCCA	5997
Sbjct	5938	TCAAGATCATGAGCGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCGCCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCTGGTGTGGTCTGCGCAGCAATCTGCGCCGCGCAG	6057
Sbjct	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCTGGTGTGGTCTGCGCAGCAATCTGCGCCGCGCAG	6057
Query	6058	TTGGCCCGGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGG	6117
Sbjct	6058	TTGGCCCGGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTGATAGCCTTCGCCCTCCCGGG	6117
Query	6118	GGAACCATGTTTCCCCCAGCACTACGTGCCGAGAGCGATGACGCCGCCCGCGTCACTG	6177
Sbjct	6118	GGAACCATGTTTCCCCCAGCACTACGTGCCGAGAGCGATGACGCTGCCCGCGTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGCGACATGCATCAGTGGATAAGCT	6237
Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGCGACATGCACCACTGGATAAGCT	6237
Query	6238	CGGAGTGTACCATCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	CGGAGTGTACCATCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGA	6357
Sbjct	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGA	6357
Query	6358	TTCCCTTTTGTGCTCTGCCAGCGCGGTATAGGGGGGCTTGGCGAG-GAGACGGCAATTATG	6416
Sbjct	6358	TTCCCTTTTGTGCTCTGCCAGCGCGGTATAAGGGGGGCTTGGCGAGTG-GACGSCATCATG	6416
Query	6417	CACACTTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417	CACACTTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Query	6477	ATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAACGCCTAC	6536
Sbjct	6477	ATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACCTTCCCAATTAATGCTAC	6536
Query	6537	ACCACGGGCGCCCTGTACTCCCTTCTTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537	ACCACGGGCGCCCTGTATCCCTTCTTGCGCCGAACATACAGCTTCGCGCTATGGAGGGTG	6596
Query	6597	TCTGCAGAGGAATACGTGGAGATAAGCGCGGTGGGGGACITCCACTACGT-ATCGGGTAT	6655

Sbjct	6597	TCTGCAGAGGAATATGTGGAGATAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTAT	6655
Query	6656	GACTACTGACAATCTTAAATGCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAAT	6715
Sbjct	6656	GACTACTGACAATCTCAAATGCCGTGCCAGGTCCCATCGCCGAATTTTTCACAGAAT	6715
Query	6716	GGACGGGGTGCGCCTACACAGGTTTGCGCCCTTGAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6716	GGACGGGGTGCGCCTACATAGGTTTGCGCCCTTGAAGCCCTTGCTGCGGGAGGAGGT	6775
Query	6776	ATCATTACAGAGTAGGACTCCACAGTACCCGGTGGGGTGCAGTAATACCTTGCAGGCCGA	6835
Sbjct	6776	ATCATTACAGAGTAGGACTCCACGAATACCCGGTAGGGTGCAGTAATACCTTGCAGGCCGA	6835
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATAACAGCAGAGGC	6895
Sbjct	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATAACAGCAGAGGC	6895
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCC	6954
Sbjct	6896	GGCCGGGCGAAGGTTGGCGAG-GGGATCACCCCTTCTGTGGCCAGCTCCTCGGCTAGCC	6954
Query	6955	AGCTGTCGCTCCATCTCTCAAGGCAACTTGACCCGCCAACCATGACTCCCTGACGCCG	7014
Sbjct	6955	AGCTATCCGCTCCATCTCTCAAGGCAACTTGACCCGCTAACCATGACTCCCTGATGCTG	7014
Query	7015	AGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG	7074
Sbjct	7015	AGCTCATAGAGGCCAACCTCCTATGAGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG	7074
Query	7075	AGTCAGAGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATG	7134
Sbjct	7075	AGTCAGAAAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGACG	7134
Query	7135	AGCGGGAGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCCCCGGGCC	7194
Sbjct	7135	AGCGGGAGATCTCCGTACCCGCAGAAATCTGCGGAAGTCTCGGAGATTGCCCCAGGCC	7194
Query	7195	TGCCCGTCTGGGCGCGGCCGACTACAACCCCGCTAGTAGAGACGTGGAAGAAAGCCTG	7254
Sbjct	7195	TGCCCGTCTGGGCGCGGCCGACTATAACCCCGCTAGTGAGAGACGTGGAAGAAAGCCTG	7254
Query	7255	ACTACGAACCACTGTGGTCCATGGCTGCCGCTACCACTCCACGGTCCCTCCTGTGC	7314
Sbjct	7255	ACTACGAACCACTGTGGTCCATGGCTGCCGCTTCCACTCCAAAGTCCCTCCTGTGC	7314
Query	7315	CTCCGCTCTGGAAAAAGCGTACGGTGGTCTCACCAGATCAACCTTATCTACTGCTTGG	7374
Sbjct	7315	CTCCGCTCTGGAGAAGCGGACGGTGGTCTCACTGAATCAACCTTATCTACTGCTTGG	7374
Query	7375	CCGAGCTTGGCACCAGAAAGTTTGGCAGTCTCTCAACTTCGGCATTACGGGCGACAATA	7434
Sbjct	7375	CCGAGCTCGCCACCAGAAAGTTTGGCAGTCTCTCAACTTCGGCATTACGGGCGACAATA	7434
Query	7435	CGACAACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCGACTCCGACGTTGAGTCTCT	7494
Sbjct	7435	CGACAACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCGACTCCGACGTTGAGTCTCT	7494
Query	7495	ATTCTTCCATGCCCCCTTGGAGGGGAGCCITGGGATCCGGATCTCAGCGACGGGTCAT	7554
Sbjct	7495	ATTCTTCCATGCCCCCTTGGAGGGGAGCCITGGGATCCGGATCTTAGCGACGGGTCAT	7554
Query	7555	GGTCAGAGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGCTGCTCAATGCTTATT	7614
Sbjct	7555	GGTCAGAGGTCAGTAGTGGGGCCGACGCGGAGGATGTCGTGCTGCTCAATGCTTATT	7614
Query	7615	CCTGGACAGGCGCACTCGTACCCCGTGCCTGCGGGAAGAACAAAACTGCCATCAACG	7674
Sbjct	7615	CTTGGACAGGCGCACTCGTACCCCGTGCCTGCGGGAAGAACAGAACTGCCATCAATG	7674
Query	7675	CAGTACGCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTACGCGAGT	7734
Sbjct	7675	CAGTACGCAACTCGTTGCTACGTCACCAATTTGGTGATTCCACCACCTTACGCGAGT	7734
Query	7735	CTTGCCAAAGGCAGAGAAAGTCACATTGTGACAGACTCGAAGTCTTGACAGCCATTACC	7794

Sbjct	7735	CTTGCCAAAGGCAGAAAGATCACATTTCAGACAGCTGCAAGTTCTGGACAGCCATTACC	7794
Query	7795	AGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCATATCCG	7854
Sbjct	7795	AGGACGTACTCAAGGAGGTTAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCATATCCG	7854
Query	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGG	7914
Sbjct	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGTTATGGGG	7914
Query	7915	CAAAAGACGTCCTGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAG	7974
Sbjct	7915	CAAAAGACGTCCTGTTGCCATGCCAGAAAGGCCGTAAACCCACATCAACTCCGTGTGGAAAG	7974
Query	7975	ACCTTCTGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTT	8034
Sbjct	7975	ACCTTCTGGAAGACCAATGTAAACACCAATAGACACTACCATCATGGCTAAGAACGAGGTTT	8034
Query	8035	TCGCGTTTCAGCCTGAGAAAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTTCGCCGACC	8094
Sbjct	8035	TCGCGTTTCAGCCTGAGAAAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTTCGCCGATC	8094
Query	8095	TGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGCTGGTTAGCAA-GCTCCCCCTG	8153
Sbjct	8095	TGGGCGTGCGCGTGTGCGAAAAGATGGCTTTGTACGACGCTGGTTA-CAAGGCTCCCCCTG	8153
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCT	8213
Sbjct	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCT	8213
Query	8214	GTGCAAGCGTGGAAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTT	8273
Sbjct	8214	GTGCAAGCGTGGAAAGTCCAAGAAAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTT	8273
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTACCAATGTTGTGAC	8333
Sbjct	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTACCAATGTTGTGAC	8333
Query	8334	CTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8334	CTGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACCAGAGGCTTTATGTTGGGGGC	8393
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACGCGGCTACCGAGGTGCCGCGCAGCGCGGTA	8453
Sbjct	8394	CCTCTTACCAATTCAAGGGGGGAGAACTGCGGCTATCGCAGGTGCCGCGCAGCGCGTA	8453
Query	8454	CTGACAACCTAGCTGTGGTAAACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGCA	8513
Sbjct	8454	CTGACAACCTAGCTGTGGTAAACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGCA	8513
Query	8514	GCCGAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Sbjct	8514	GCCGAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Query	8574	GAAAGTCGCGGGGTCCAGGAGGACGCGCGAGCCTTGAGAGCCTTACGGAGGCTATGACC	8633
Sbjct	8574	GAAAGTCGCGGGGTCCAGGAGGACGCGCGAGCCTTGAGAGCCTTACGGAGGCTATGACC	8633
Query	8634	AGGTACTCCGcccccccggggaacccccACAACCAGAAATACGACTTGGAGCTTATAACA	8693
Sbjct	8634	AGGTACTCCGCCCCCCTGGGGACCCCCACAACCAGAAATACGACTTGGAGCTCATAACA	8693
Query	8694	TCATGCTCCTCCAAAGGTGTGAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTT	8753
Sbjct	8694	TCATGCTCCTCCAAAGGTGTGAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTT	8753
Query	8754	ACCCGTGACCCCTACAACCCCCCTCGCGAGAGCGCGTGGGAGACAGCAAGACACTCCA	8813
Sbjct	8754	ACCCGTGACCCCTACAACCCCCCTCGCGAGAGCTGCGTGGGAGACAGCAAGACACTCCA	8813
Query	8814	GTCAATTCTGGCTAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCAGGATGATA	8873
Sbjct	8814	GTCAATTCTGGCTAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCAGGATGATA	8873
Query	8874	CTGATGACCCATTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8933

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Sbjct  8874  CTGATGACCCATTCTTTTAGCGTCCTTATAGCCAGGGACCAGCTTGAACAGGCCCTCGAT  8933
Query   8934  TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCAITCAA  8993
Sbjct  8934  TCGGAGATCTACGGGGCCTGCTACTCCATAGAACCACTTGATCTACCTCCAATCAITCAA  8993
Query   8994  AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG  9053
Sbjct  8994  AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGG  9053
Query   9054  GTGGCCCGCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCAGGCTTGAGACACCGGGCC  9113
Sbjct  9054  GTGGCCCGCATGCCTCAGAAAACTTGGGGTACC GCCCTTGCAGGCTTGAGACACCGGGCC  9113
Query   9114  CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGAGGCGAGGGCTGCCATATGTGGCAAGTAC  9173
Sbjct  9114  CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGAGGCGAGGGCTGCCATATGTGGCAAGTAC  9173
Query   9174  CTCITCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGG  9233
Sbjct  9174  CTCITCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCAG  9233
Query   9234  CTGGACTTGTCCGGTTGGTTACGGCTGGCTACAGCGGGGGAGACATTATCACAGCGTG  9293
Sbjct  9234  CTGGACTTGTCCGGTTGGTTACGGCTGGCTACAGCGGGGGAGACATTATCACAGCGTG  9293
Query   9294  TCTCATGCCCGGCCCGCTGGTTCTGGTTTTCGCTACTCTGCTCGCTGCAGGGGTAGGC  9353
Sbjct  9294  TCTCATGCCCGGCCCGCTGGATCTGGTTTTCGCTACTCTGCTCGCTGCAGGGGTAGGC  9353
Query   9354  ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCT  9401
Sbjct  9354  ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCT  9401

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>gb|I71894.1|I71894 Sequence 9 from patent US 5683864
Length=9401

Score = 1.520e+04 bits (8231), Expect = 0.0
Identities = 9018/9408 (95%), Gaps = 14/9408 (0%)
Strand=Plus/Plus

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Query    1  GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAACACTACTG  60
Sbjct    1  GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAACACTACTG  60
Query   61  TCTTCACGCAGAAAGCGCTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA  120
Sbjct   61  TCTTCACGCAGAAAGCGCTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA  120
Query   121  ccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG  180
Sbjct   121  CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG  180
Query   181  GACGACCGGGTCTCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC  240
Sbjct   181  GACGACCGGGTCTCTTTCTTGGATCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC  240
Query   241  GCAAGACTGTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCCTTGTGGTACTGCTGATAGG  300
Sbjct   241  GCAAGACTGTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCCTTGTGGTACTGCTGATAGG  300
Query   301  GTGCTTGGCAGTGAGTCCCGGGAGGCTCTGCTAGACCGTGACCATGAGCACGAATCCTAAAC  360
Sbjct   301  GTGCTTGGCAGTGAGTCCCGGGAGGCTCTGCTAGACCGTGACCATGAGCACGAATCCTAAAC  360
Query   361  CTCAAAAAAGAAAAACAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCGGGGTG  420
Sbjct   361  CTCAAAAAAGAAAAACAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCGGGGTG  420
Query   421  GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC  480
Sbjct   421  GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC  480
Query   481  GCGGACGAGGGAAGACTTCCGAGCGGTTCGCAACCTTCAGAGTAGACGTGAGCTATCCCCA  540

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Sbjct	481	GCGCGACGAGAAAGACTTCGAGCGGTCGCAACCTCGAGGTAGACGTACGCTATCCCCA	540
Query	541	AGGCAGCTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGTACCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCTCGTCGSCCGAGGSCAGGACTGGGCTCAGCCCGGTACCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTCGGGTGGGCGGGATGGCTCTGTCTCCCGTGGCTCTGGGCTAGCT	660
Sbjct	601	GCAATGAGGGCTCGGGTGGGCGGGATGGCTCTGTCTCCCGTGGCTCTGGGCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCTAGGTCGCGCAATTGGGAAGGTCATCGATACCCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCTAGGTCGCGCAATTGGGAAGGTCATCGATACCCCTTA	720
Query	721	CGTGGCGCTTCGCGGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGGCGCTTCGCGGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
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Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
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Sbjct	841	GGAACCTTCTGGTGTCTTTCTCTTCTCTCTCTCTGGCCCTGCTCTCTTGCTTGACTG	900
Query	901	TGCCCGCTTCAGGCTACCAAGTGCACAATTCTCGGGGCTTTACCATGTCAACCAATGATT	960
Sbjct	901	TGCCCGCTTCGGCTACCAAGTGCACAATTCCAGGGGCTTTACCACTGCAACCAATGATT	960
Query	961	GCCCTAACTCAGATATTGTGTACGAGGCGGCCGATGCCATCTTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCAGATATTGTGTACGAGGCGGCCGATGCCATCTTGCACACTCCGGGGTGTG	1020
Query	1021	TCCTTGGCTTCGCGAGGGTAAACGCTCGAGGTGTTGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCTTGGCTTCGTGAGGGCAACGCTTCAGAGTGTGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAACTCCCCAACCGAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Sbjct	1081	CCACCAGGGATGGCAAACTCCCCGCGACGAGCTTCGACGTCACATCGATCTGCTTGTCTG	1140
Query	1141	GGAGCGCACCCCTCTGCTCGGCCCTTACGTTGGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Sbjct	1141	GGAGCGCACCCCTCTGTTGCGGCCCTTACGTTGGGGGACCTATGCGGGTCTGCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TCGGCCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAAGGGTCACCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCTACGCGACGCTGGTGAGTCTAGCTGCTCGGACTCCCAAGGACATATGAGTACGACA	1380
Sbjct	1321	CCCTACGACGGCGTTGGTAAATGGCTAGCTGCTCCGACTCCCAAGGACATCTTGAGACA	1380
Query	1381	TGATCGCTGGTGTCTACATGGGAGTCTGCGCGGCATAGCGTATTCTCCATGTTGGGGA	1440
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Query	1441	ACTGGGCGAAGTCTCTGGTAGTGTCTGCTATTTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGTCTCTGGTAGTGTCTGCTATTTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAATGCCGGCCGACACAGGCTGGGCTTGTGGTCTCCTTACACAGGCGG	1560
Sbjct	1501	TCACCGGGGGAAGTGGCGGCCACTGTGTCTGGATTGTTAGCCTCTCTGACACAGGCGG	1560
Query	1561	CCAAGCAGAACATCCAATGATCAACACCAACGGCAGTTGGACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACGTCAGCTGATCAACACCAACGGCAGTTGGACCTCAATAGCACGGCCC	1620
Query	1621	TGAATTGCAATGAAAGCTTAAACCCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAT	1680

Sbjct	1621	TGAAC	TGCAATGATAGCCTCAACACCGGCTGGTTGGCAGGGCTTTCTATCACACAAGT	1680
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Sbjct	1681	TCAACT	CTTCAGGCTGTCCTGAGAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACC	1740
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Sbjct	1741	AGGGCT	TGGGGCCCTCATAGTTATGCCAACCGAAGCGGCCCGACGAGCGCCCTACTGCT	1800
Query	1801	GGCACT	ACCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACT	ACCCCCAAAACCTTGCGGTATTGTGCCCGCAAAGAGTGTGTGTGGTCCGGTAT	1860
Query	1861	ATTGCT	TCACTCCAGCCGCCGTGGTGGTGGGAACGACCGACAGTCGGGGCGCGCTACCT	1920
Sbjct	1861	ATTGCT	TCACTCCAGCCGCCGTGGTGGTGGGAACGACCGACAGTCGGGGCGCGCCCACT	1920
Query	1921	ACAGCT	TGGGGTGCAAAATGATACGGATGCTTCCTGCTCTTAACAACACGAGGCCCGCTGG	1980
Sbjct	1921	ACAGCT	TGGGGTGAAAATGATACGGAGCTCTTCGTCTCTTAAACATACGAGGCCCGCTGG	1980
Query	1981	GCAATT	TGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
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Query	2041	CCCTTG	TGTGTCATCGGAGGGGTGGGCAACACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CTCCTT	TGTGTCATCGGAGGGGCGGCAACACACCTGCATGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAA	CATCCGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
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Query	2161	GCATG	TGCTGACTACCCGTATAGGCTTTGGCACTATCCTTGTAACATCAATTACACCATAT	2220
Sbjct	2161	GCTTG	TGCTGACTACCCGTATAGGCTTTGGCACTATCCTTGTAACATCAACTACACCATAT	2220
Query	2221	TCAAAT	GTCAGGATGTACGTGGGAGGGGTGAGACAGGCTGGAAGCGGCTGCAACTGGA	2280
Sbjct	2221	TAAAAT	GTCAGGATGTACGTGGGAGGGGTGAAACAGGCTGGAAGCTGCTGCAACTGGA	2280
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Sbjct	2521	CAGACG	CGCGGTCTGCTCTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGCGG	2580
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Query	2701	TCTACG	CCCTACGGGATGTGGCTCTCTCTGCTCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACAC	CTTACGGGATGTGGCTCTCTCTGCTCTGCTGTTGGCGTTGCCACAGCGGG	2760
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Sbjct	2761	CGTACGCGCTGGACACGAGGTGGCCGCGTCTGTGGCGGTGTGTCTCTCGTCGGGTGTA	2820
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Sbjct	2941	GAGGGGGGCGCGACGCCGTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTT	2999
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Sbjct	3000	GACATCACCAAATTTGCTCTGGCCGCTCTTCGAGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Query	3060	CTTAAAGTCCCTACTTCTGCGCGTTCAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGG	3119
Sbjct	3060	CTTAAAGTACCTACTTTGTCGCGCTCCAGGCCCTTCTCCGGTCTGCGCGCTAGCGCGG	3119
Query	3120	AAGAT-AGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3120	AAGATGATC-GGAGGCCATTACGTGCAAAATGGTCAATTAAGTTAGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAAACCATCTCACCCCTCTTCGAGACTGGGCGCAACACGGCTTGCAGG	3238
Sbjct	3179	CACCTATGTGTATAAACCATCTCCTCTCTTCGGGACTGGGCGCAACACGGCTTGCAGG	3238
Query	3239	TCTGGCCGTGGCTGTGGAAACAGTCGCTTCTCCGGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	TCTGGCCGTGGCTGTAGAGCCAGTCGCTTCTCCCAAATGGAGACCAAGCTCATCACGTG	3298
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Sbjct	3299	GGGGGCAGATACCGCCGCGTGGCGGTGACATCATCAACGGCTTGGCTGTTCGCCCGCGAG	3358
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Sbjct	3359	GGGCCGGGAGATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGTTGCT	3418
Query	3419	GGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCTCCTAGGGTGATAATCACCAG	3478
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Query	3479	CCTGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
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Sbjct	3599	AACGAGGACCATCGCATCACCAAGGGTCCTGTATCCAGATGTATACCAATGTAGACCA	3658
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Query	3719	CTCCTGGGACCTTTACCTGGTACAGGACACGCCGATGTCATTCCCGTGGCGCGGGGAGG	3778
Sbjct	3719	CTCCTGGGACCTTTACCTGGTACAGGACACGCCGATGTCATTCCCGTGGCGCGGGGAGG	3778
Query	3779	TGATAGCAGGGGTAGCTGCTTTCGCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGGAGCTGCTGCTGCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGG	3838
Query	3839	GGGTCGCTGTGTGCCCCGCGGGACACGCCGTGGGCTATTAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	GGGTCGCTGTGTGCCCCGCGGGGACACGCCGTGGGCTATTAGGGCCGCGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958

Sbjct	3899	CCGTGGAGTGGCTAAGCGCGTGGACTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959	ATCCCCGGTGTTTCACGGACAACCTCCTCTCCACCAGCAGTGCCTCCAGGCTTCCAGGTGGC	4018
Sbjct	3959	GTCCCCGGTGTTTCACGGATAACTCCTCTCCACCAGTAGTGCCTCCAGGCTTCCAGGTGGC	4018
Query	4019	CCACCTGTCATGCTCCACCGGAGCGGTAAAGACACCAAGTCCCGGCTGCGTACGCAGC	4078
Sbjct	4019	TCACCTFCATGCTCCACAGGAGCGGCAAAAGCACCAAGTCCCGGCTGCATATGCAGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	TCAGGGCTATAAGTGCTAGTAGTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGC	4138
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Sbjct	4139	TTACATGTCCAAGGCTCATGGGATCGATCCTAACATCAGGACCGGGGTGAGAACAAATTAC	4198
Query	4199	CACCTGGCAGCCCCATCAGTACTCCACTTACGCGAAGTTCCTTGGCGACGGCGGGTGCTC	4258
Sbjct	4199	CATGTCGACGCCCATCAGTACTCCACTTACGCGAAGTTCCTTGGCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATAATTGTGACAGAGTGCACCTCCAGGATGCCACATCCAT	4318
Sbjct	4259	GGGGGGCGCTTATGACATAATAATTGTGACAGTGCACCTCCAGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACGTGCTTGTACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Sbjct	4319	CTTGGGCATCGGCACGTGCTTGTACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	CGCCACCGCACCCCTCCGGGCTCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGC	4438
Query	4439	TCTGTCCACCACCGAGAGATCCCCTTTTACGCGAAGGCTATCCCCCTCGAGGTGATCAA	4498
Sbjct	4439	TCTGTCCACCACCGAGAGATCCCCTTTTACGCGAAGGCTATCCCCCTCGAGGTGATCAA	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAGAGAAAGTGCAGCAGCTCGCCGGCAA	4558
Sbjct	4499	GGGGGGAGACATCTCATCTTCTGTCATTCAAGAGAAAGTGCAGCAACTCGCCGCAA	4558
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Sbjct	4559	GCTGGTGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGCTCCGTCAT	4618
Query	4619	CCCAGCCAGCGCGCATGTTGTCGTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCCAGCCAGCGCGCATGTTGTCGTGCTGTCGGAACCGATGCCCTCATGACCGCTATACCGG	4678
Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTTGTCTACTCAGACAGTCGATTTACGCCCT	4738
Sbjct	4679	CGACTTCGACTCGGTGATAGACTGCAATACGTTGTGTACCCAGACAGTCGATTTACGCCCT	4738
Query	4739	TGACCTACCTTTACCATTTAGACACAACCTGCTCCCCAGATGCTGCTCCAGGACTCA	4798
Sbjct	4739	TGACCTACCTTTACCATTTAGACAATACGCTCCCCAGGATGCTGCTCCCGCACTCA	4798
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Sbjct	4799	ACGTCCGGGCGAGACTGGCAGGGGGAAGCAGGCATCTACAGATTTTGGACACGGGGGA	4858
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Sbjct	4859	GCGCCCTCCGGCATGTTGCTGCTCGTCCGTCCTCTGTGAGTGCTATGACGCAAGCTGTGC	4918
Query	4919	TTGGTATGAGTCTACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919	TTGGTATGAGTCTACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
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Sbjct	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAAATTTTGGAGGGCGTCTTTACAGCCCTCAC	5038
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Sbjct	5039	TCATATAGATGCCCACTTTCTATCCAGACAAAGCAGAGTGGGGAGAACCTTCCTTACCT	5098
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Sbjct	5099	GGTAGCGTACCAAGCCACCCTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCA	5158
Query	5159	GATGTGGAAGTGTGTTGATCCGCCTTAAACCCACCCTCCATGGGCGCAACACCCTGCTATA	5218
Sbjct	5159	GATGTGGAAGTGTGTTGATCCGCCTAAGCCACCCTCCATGGGCGCAACACCCTGCTATA	5218
Query	5219	CAGACTGGGCGCTGTTTCAGAATGAAGTCACCTGACGACCCCAATACCAAATACATCAT	5278
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Query	5279	GACATGCATGTGCGGCGACCTGGAGGTGTCACGAGCACCTGGGTGCTCGTGGCGGCGT	5338
Sbjct	5279	GACATGCATGTGCGGCGACCTGGAGGTGTCACGAGCACCTGGGTGCTCGTGGCGGCGT	5338
Query	5339	CTGGCTGCTCTGGCCGCGTATTGCCCTGTCAACAGGCTGCGTGGTCATAGTGGGAGGAT	5398
Sbjct	5339	CTGGCTGCTCTGGCCGCGTATTGCCCTGTCAACAGGCTGCGTGGTCATAGTGGGAGGAT	5398
Query	5399	CGTCTTGGCGGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCCTTACC-AGGAGTTCG	5457
Sbjct	5399	CGTCTTGGCGGGGAAGCCGGCAATCATACCTGACAGGGAGGTTCCTTACCAG-AGTTCG	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Query	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGGTCCCGCATGCAGAGGTTA	5577
Sbjct	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGGTCCCGCATGCAGAGGTTA	5577
Query	5578	TCACCCTGCTGTCCAGACCAACTGGCAGAACTCAGAGTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578	TCGCCCTGCTGTCCAGACCAACTGGCAAACTCAGAGCTTCTGGGCGAAGCATATGT	5637
Query	5638	GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCCG	5697
Sbjct	5638	GGAACCTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCCG	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAA	5757
Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTAGCCAAA	5757
Query	5758	CCCTCCTCTTCAACATATTgaggggTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG	5817
Sbjct	5758	CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG	5817
Query	5818	CTACTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCGGCCATCGGCAGCGTGGAGCTGGGGA	5877
Sbjct	5818	CTACTGCCCTTGTGGGCGCTGGCTAGCTGGCGCGGCCATCGGCAGTGTGGAGCTGGGGA	5877
Query	5878	AGGTCTCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCTCTCATAGACATCTTGCAGGGTATGGCGCGGGCTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGGCCGGCAGC	6057
Sbjct	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGGCCGGCAGC	6057
Query	6058	TTGGCCCGGGCGAGGGGGCAGTGCATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGG	6117
Sbjct	6058	TTGGCCCGGGCGAGGGGGCAGTGCATGGATGAACCGGCTGATAGCCTTCGCCCTCCCGGG	6117
Query	6118	GGAACCATGTTTCCCCCAGCACTACGTGCCGAGAGCGATGCAGCCGCCCGCGTCACTG	6177
Sbjct	6118	GGAACCATGTTTCCCCCAGCACTACGTGCCGAGAGCGATGCAGCTGCCCGCGTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGCGCACTGCATCAGTGGATAAGCT	6237

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Sbjct  6178 CCATACTCAGCAGCCTCTACTGTAACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCT 6237
Query  6238 CGGAGTGTACCATTCCATGCTCCGGTTCTTGCTAAGGGACATCTGGGACTGGATATGCG 6297
Sbjct  6238 CGGAGTGTACCATTCCATGCTCCGGTTCTTGCTAAGGGACATCTGGGACTGGATATGCG 6297
Query  6298 AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAAGCTCATGCCAACCTGCCTGGGA 6357
Sbjct  6298 AGGTGCTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCAAGCTGCCTGGGA 6357
Query  6358 TTCCCTTTTGCTCTGCCAGCGGGGTATAGGGGGTCTGGCGAG-GAGACGGCATTATG 6416
Sbjct  6358 TTCCCTTTTGCTCTGCCAGCGGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATG 6416
Query  6417 CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG 6476
Sbjct  6417 CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG 6476
Query  6477 ATCGTCGGTCTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTAC 6536
Sbjct  6477 ATCGTCGGTCTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAAGCTAC 6536
Query  6537 ACCACGGGCGCCCTGTACTCCCTTCTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTG 6596
Sbjct  6537 ACCACGGGCGCCCTGTACTCCCTTCTCTGCGCCGAACATACACGTTTCGCGCTATGGAGGGTG 6596
Query  6597 TCTGCAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGT-ATCGGGTAT 6655
Sbjct  6597 TCTGCAGAGGAATATGTGGAGATAAAGCAGGTGGGGGACTTCCACTACGTGA-CGGGTAT 6655
Query  6656 GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGGAATTTTTCACAGAATT 6715
Sbjct  6656 GACTACTGACAATCTCAAATGCCCGTGCCAGTCCCATCGCCGGAATTTTTCACAGAATT 6715
Query  6716 GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGAAGCCCTTGCTGCGGGAGGAGGT 6775
Sbjct  6716 GGACGGGGTGCGCCTACATAGGTTTGCGCCCCCTTGAAGCCCTTGCTGCGGGAGGAGGT 6775
Query  6776 ATCAATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGGCCGA 6835
Sbjct  6776 ATCAATTCAGAGTAGGACTCCACGAATACCCGGTAGGGTCGCAATTACCTTGCAGGCCGA 6835
Query  6836 ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC 6895
Sbjct  6836 ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC 6895
Query  6896 GGCCGGGAGAGGTTTGGCGAGAGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCC 6954
Sbjct  6896 GGCCGGGCGAAGGTTTGGCGAG-GGGATCACCCCTCTGTGGCCAGCTCCTCGGCTAGCC 6954
Query  6955 AGCTGTCCGCTCCATCTCTCAAGGCAACTTGACCGCCCAACCATGACTCCCTGAGCGCG 7014
Sbjct  6955 AGCTATCCGCTCCATCTCTCAAGGCAACTTGACCGCTTAACCATGACTCCCTGATGCTG 7014
Query  7015 AGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG 7074
Sbjct  7015 AGCTCATAGAGGCCAACCTCCTATGAGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG 7074
Query  7075 AGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATG 7134
Sbjct  7075 AGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATG 7134
Query  7135 AGCGGGAGGTTCCGTAACCTGACGAGAAATTCGCGGAAGTCTCGGAGATTTCGCCCGGCC 7194
Sbjct  7135 AGCGGGAGATCTCCGTACCCGACAGAAATCTGCGGAAGTCTCGGAGATTTCGCCCGGCC 7194
Query  7195 TGCCCGTCTGGGCGCGGCCGACTACAACCCCGCTAGTAGAGAGCTGGAAGAAAGCCTG 7254
Sbjct  7195 TGCCCGTCTGGGCGCGGCCGACTATAACCCCGCTAGTAGAGAGCTGGAAGAAAGCCTG 7254
Query  7255 ACTACGAACCACTGTGGTCCATGGCTGCCCGCTACCACTCCACGCTCCCTCTGTGC 7314
Sbjct  7255 ACTACGAACCACTGTGGTCCATGGCTGCCCGCTTCACCTCCAAAGTCCCTCTGTGC 7314
Query  7315 CTCGCCCTCGGAAAAAGCGTACGGTGGTCTCACGGAATCAACCTATCTACTGCCTTGG 7374
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Sbjct	7315	CTCCGCCCTCGGAAGAAGCGGACGGTGGTCTCTCACTGAATCAACCTATCTACTGCCCTTGG	7374
Query	7375	CGGAGCTTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCGGCAATTACGGGGGACAATA	7434
Sbjct	7375	CGGAGCTCGCCACCAAGAAGCTTGGCAGCTCCTCAACTTCGGCAATTACGGGGGACAATA	7434
Query	7435	CGACAACATCTCTTGAGCCCGCCCTTCTGGCTG-----GACTCCGACGTTGAGTCTCT	7494
Sbjct	7435	CGACAACATCTCTTGAGCCCGCCCTTCTGGCTGCCCCCGAGCTCCGACGCTGAGTCTCT	7494
Query	7495	ATTCCTTCATG-----TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAT	7554
Sbjct	7495	ATTCCTTCATGCCCCCTTGGAGGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCAT	7554
Query	7555	GGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATT	7614
Sbjct	7555	GGTCACGGTCAGTAGTGAGGCCAACGCGGAGGATGTCGTGTGCTGCTCAATGCTTACT	7614
Query	7615	CCTGACAGGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCATCAACG	7674
Sbjct	7615	CTTGACAGGGCGCACTCGTCACCCCGTGCCTGCGCGGAAGAACAGAACTGCCATCAATG	7674
Query	7675	CACCTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTCACGCACTG	7734
Sbjct	7675	CACCTAAGCAACTCGTTGCTACGTACCCACAATTTGGTGATTCCACCACCTTCACGCACTG	7734
Query	7735	CTTGCCAAAGGCAGAGAAGTTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Sbjct	7735	CTTGCCAAAGGCAGAGAAGTTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Query	7795	AGGACGTGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Sbjct	7795	AGGACGTACTCAAGGAGGTAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Query	7855	TAGAGGAAGCTTGACGCCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGG	7914
Sbjct	7855	TAGAGGAAGCTTGACGCCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGTTATGGGG	7914
Query	7915	CAAAAGACGTCCTGTGCCATGCCAGAAAGCCGTAAGCCACATCAACTCCGTGTGAAAG	7974
Sbjct	7915	CAAAAGACGTCCTGTGCCATGCCAGAAAGCCGTAACCCACATCAACTCCGTGTGAAAG	7974
Query	7975	ACCTTCTGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTT	8034
Sbjct	7975	ACCTTCTGGAAGACAATGTAAACACCAATAGACACTACCATCATGGCTAAGAACGAGGTTT	8034
Query	8035	CTCGGTTTCAGCCTGAGAAAGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTCCCGACC	8094
Sbjct	8035	CTCGGTTTCAGCCTGAGAAAGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTCCCGATC	8094
Query	8095	TGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTG	8153
Sbjct	8095	TGGGCGTGCGCGTGTGCGAAAAGATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCCTG	8153
Query	8154	GCGGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCT	8213
Sbjct	8154	GCGGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCT	8213
Query	8214	GTGCAAGCGTGAAGTCCAAGAAGACCCGATGGGGTTCCTGTAATGATACCCGCTGTTT	8273
Sbjct	8214	GTGCAAGCGTGAAGTCCAAGAAGACCCCAATGGGGTTCCTGTAATGATACCCGCTGTTT	8273
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGCAATTTACCAATGTTGTGAC	8333
Sbjct	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGCAATTTACCAATGTTGTGAC	8333
Query	8334	CTGGAACCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8334	CTGGAACCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACGCGGCTACCGCAGGTGCCGCGCAGCGCGCTA	8453
Sbjct	8394	CCTCTTACCAATTCAAGGGGGGAGAACTGCGGCTATCGCAGGTGCCGCGCAGCGCGCTA	8453
Query	8454	CTGACAACCTAGCTGTGGTAACACCTCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGCA	8513

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Sbjct  8454  CTGACAAC TAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGCGA  8513
Query   8514  GCCGAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCTGTTATCTGT  8573
Sbjct  8514  GCCGAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCTGTTATCTGT  8573
Query   8574  GAAAGTGC GGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACAGGAGGCTATGACC  8633
Sbjct  8574  GAAAGCGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACAGGAGGCTATGACC  8633
Query   8634  AGGTACTCCGccccccccggggaacccccACAACCAGAATACGACTTGGAGCTTATAACA  8693
Sbjct  8634  AGGTACTCCGCCCCCCTGGGGACCCCCACAACCAGAATACGACTTGGAGCTCATAACA  8693
Query   8694  TCATGCTCCTCCAACGTGTCAGTCGCCACGACGCGCTGGAAAGAGGGTCTACTACCTT  8753
Sbjct  8694  TCATGCTCCTCCAACGTGTCAGTCGCCACGACGCGCTGGAAAGAGGGTCTACTACCTC  8753
Query   8754  ACCCGTGACCCCTACAACCCCTTCGCGAGAGCGCGCTGGGAGACAGCAAGACACACTCCA  8813
Sbjct  8754  ACCCGTGACCCCTACAACCCCTTCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCA  8813
Query   8814  GTCAATTCTCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATA  8873
Sbjct  8814  GTCAATTCTCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATA  8873
Query   8874  CTGATGACCCATTTCCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC  8933
Sbjct  8874  CTGATGACCCATTTCCTTTAGCGTCCTCATAGCCAGGGACAGCTTGAACAGGCTCTCGAT  8933
Query   8934  TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACCTGGATCTACCTCCAATCAATCAA  8993
Sbjct  8934  TGCAGATCTACGGGCGCTGCTACTCCATAGAACCACCTTGATCTACCTCCAATCAATCAA  8993
Query   8994  AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG  9053
Sbjct  8994  AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGG  9053
Query   9054  GTGGCCGCGATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCC  9113
Sbjct  9054  GTGGCCGCGATGCCTCAGAAAACTTGGGGTACC GCCCTTGCGAGCTTGGAGACACCGGGCC  9113
Query   9114  CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCGAGGCTGCCATATGTGGCAAGTAC  9173
Sbjct  9114  CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCGAGGCTGCCATATGTGGCAAGTAC  9173
Query   9174  CTCCTCAACTGGGCAGTAAGAACAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGG  9233
Sbjct  9174  CTCCTCAACTGGGCAGTAAGAACAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCAG  9233
Query   9234  CTGACTTGTCCGGTTGGTTACGGCTGGCTACAGCGGGGGAGACATTATCACAGCGTGT  9293
Sbjct  9234  CTGACTTGTCCGGTTGGTTACGGCTGGCTACAGCGGGGGAGACATTATCACAGCGTGT  9293
Query   9294  TCTCATGCCGGGCGCGCTGGTTCTGGTTTTCGCTACTCTGCTCGCTGCAGGGGTAGGC  9353
Sbjct  9294  TCTCATGCCGGGCGCGCTGGATCTGGTTTTCGCTACTCTGCTGCTGCAGGGGTAGGC  9353
Query   9354  ATCTACCTCTCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCCT  9401
Sbjct  9354  ATCTACCTCTCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCCT  9401

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>dbj|DM170404.1| HEPATITIS C VIRUS (HCV) POLYPEPTIDES
Length=9379

Score = 1.516e+04 bits (8209), Expect = 0.0
Identities = 8996/9386 (95%), Gaps = 14/9386 (0%)
Strand=Plus/Plus

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Query   23  CACTCCACCATGAATCACTCCCTGTGAGGAAGTACTGTCTTACGCGAGAAAGCGTCTAG  82
Sbjct   1  CACTCCACCATGAATCACTCCCTGTGAGGAAGTACTGTCTTACGCGAGAAAGCGTCTAG  60
Query   83  CCAATGGCGTTAGTATGAGTGTGTCGAGCCTCCAGGAGcccccccCCCGGAGAGGCATA  142
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Sbjct	61	CCATGGCGCTTAGATAGTGTCGTGCAGCCTCCAGGACCCCCCTCCCGGAGAGGCCATA	120
Query	143	GTGGTCTCGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACGGGTCTCTTCTTGGA	202
Sbjct	121	GTGGTCTCGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACGGGTCTCTTCTTGGA	180
Query	203	TAAACCCGCTCAATGCGTGGAGATTGGGCGTGCCCCCGAAGACTGCTAGCCGAGTAGT	262
Sbjct	181	TCAACCCGCTCAATGCGTGGAGATTGGGCGTGCCCCCGAAGACTGCTAGCCGAGTAGT	240
Query	263	GTTGGGTGCGGAAAGGCCCTTGTTGTTACTGCCTGATAGGGTGCTTGCAGAGTGCCCGGGAG	322
Sbjct	241	GTTGGGTGCGGAAAGGCCCTTGTTGTTACTGCCTGATAGGGTGCTTGCAGAGTGCCCGGGAG	300
Query	323	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACAAACGTAA	382
Sbjct	301	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACAAACGTAA	360
Query	383	CACCAACCGTCGCCACAGGACGTCAGTTCCCGGGTGGCGGTGAGTTCGTTGGTGGAGT	442
Sbjct	361	CACCAACCGTCGCCACAGGACGTCAGTTCCCGGGTGGCGGTGAGTTCGTTGGTGGAGT	420
Query	443	TTACTTGTTCGCCGCGAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502
Sbjct	421	TTACTTGTTCGCCGCGAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	480
Query	503	GCGGTGCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCACGTCGGCCGAGGGCAG	562
Sbjct	481	GCGGTGCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCCTGTCGGCCGAGGGCAG	540
Query	563	GACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATGGCAATGAGGGTTCGGGGTGGGC	622
Sbjct	541	GACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATGGCAATGAGGGTTCGGGGTGGGC	600
Query	623	GGGATGGCTCCTGCTCTCCCGTGGCTCTCGGCCCTAGCTGGGGCCCCACAGACCCCGGGG	682
Sbjct	601	GGGATGGCTCCTGCTCTCCCGTGGCTCTCGGCCCTAGCTGGGGCCCCACAGACCCCGGGG	660
Query	683	TAGGTCGCGCAATTGGGTAAGGTCATCGATACCCCTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661	TAGGTCGCGCAATTGGGTAAGGTCATCGATACCCCTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721	GGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGG	780
Query	803	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACTTCCTGGTTGCTCTTT	862
Sbjct	781	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACTTCCTGGTTGCTCTTT	840
Query	863	CTCTATCTTCTCTTGGCCCTGCTCTCTTGCCTGACTGTGCCCGCTTACGCTACCAAGT	922
Sbjct	841	CTCTATCTTCTCTTGGCCCTGCTCTCTTGCCTGACTGTGCCCGCTTACGCTACCAAGT	900
Query	923	GCGCAATTCCCTCGGGGCTTTACCATGTACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAACTCCACGGGGCTTTACCATGTACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCGGATGCCATCCTGCACACTCCGGGGTGTGTCCTTCGTTCCGAGGGGTAA	1042
Sbjct	961	CGAGGCGGCGGATGCCATCCTGCACACTCCGGGGTGTGTCCTTCGTTCCGAGGGGTAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCACGGTGGCCACAGGAGGCCAAACTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGGTGACCCACGGTGGCCACAGGAGTGGCAAACTCCC	1080
Query	1103	CACAACGCGAGCTTCGACGTCATATCGATCTGCTTGTGCGGAGCGCCACCTCTGCTCGGC	1162
Sbjct	1081	CAGCAGCGAGCTTCGACGTCATATCGATCTGCTTGTGCGGAGCGCCACCTCTGCTCGGC	1140
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTGTTGTTCAACTGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTGTTGTTCAACTGTTTACCTTCTC	1200
Query	1223	TCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGGCCATATAAC	1282

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Sbjct 1201 TCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCTCTATCTATCCCGCCATATAAC 1260
Query 1283 GGGTCATCGCATGGCATGGGATATGATGATGAACCTGGTCCCTACGCGAGCGTTGGTGGT 1342
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Sbjct 1261 GGGTCACCGCATGGCATGGGATATGATGATGAACCTGGTCCCTACGCGAGCGTTGGTAAAT 1320
Query 1343 AGCTCAGCTGCTCCGGATCCACAAGCCATCATGGACATGATCGCTGGTGTCTACTGGGG 1402
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Sbjct 1321 GGCTCAGCTGCTCCGGATCCACAAGCCATCTTGGACATGATCGCTGGTGTCTACTGGGG 1380
Query 1403 AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACCTGGGCGAAGGTCCTGGTAGT 1462
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Sbjct 1381 AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACCTGGGCGAAGGTCCTGGTAGT 1440
Query 1463 GCTGCTGTCTATTGTCGGCGCTCGACGCGGAAACCCAGCTCACCAGGGGAAATGCCGGCCG 1522
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Sbjct 1441 GCTGCTGTCTATTGTCGGCGCTCGACGCGGAAACCCAGCTCACCAGGGGAAATGCCGGCCA 1500
Query 1523 CACCAGGCTGGGCTTGTGGTCTCCTTACACAGGCGCCAAGCAGAACATCCAACCTGAT 1582
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Sbjct 1501 CACTGTGTCTGGATTGTTAGCCTCCTCGCACCAGGCGCCAAGCAGAACCTCAGCTGAT 1560
Query 1583 CAACACCAACGGCAGTTGGCACATCAATAGCAGCGGCTTGAATTGCAATGAAAGCCTTAA 1642
      |||||
Sbjct 1561 CAACACCAACGGCAGTTGGCACCTCAATAGCAGCGGCTTGAATTGCAATGATAGCCTCAA 1620
Query 1643 CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATCAACTCTTCAGGCTGTCTCTGA 1702
      |||||
Sbjct 1621 CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCTCTGA 1680
Query 1703 GAGGTTGGCCAGCTGCCGACGCCCTTACCGATTGTCGCCAGGGCTGGGGTCCCTATCAGTTA 1762
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Sbjct 1681 GAGGCTAGCCAGCTGCCGACCCCTTACCGATTGTTGACCAGGGCTGGGGCCCTATCAGTTA 1740
Query 1763 TGCCACGGAAGCGGGCTCGACGACGCCCTACTGCTGGCAGTACCTCCAGAGCCTTG 1822
      |||||
Sbjct 1741 TGCCACGGAAGCGGGCCCGACGAGCGCCCTACTGCTGGCAGTACCCCCAAAACCTTG 1800
Query 1823 TGGCATTGTGCCCAGCAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT 1882
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Sbjct 1801 CGGTATTGTGCCCGCAAGAGTGTGTGGTCCGGTATATTGCTTCACTCCCAGCCCCGT 1860
Query 1883 GGTGGTGGGAACGACCGACAGGTGCGGCGCGCCTACCTACAGCTGGGGTGCAATGATAC 1942
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Sbjct 1861 GGTGGTGGGAACGACCGACAGGTGCGGCGCGCCACCTACAGCTGGGGTGAAATGATAC 1920
Query 1943 GGATGCTCTTCGTCTTAAACAACACAGGCGCACCCTGGGCAATTGGTTCCGGTTGTACCTG 2002
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Sbjct 1921 GGACGCTCTTCGTCTTAAACAATACAGGCGCACCCTGGGCAATTGGTTCCGGTTGTACCTG 1980
Query 2003 GATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCTCGGAGGGGT 2062
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Sbjct 1981 GATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCTCGGAGGGGC 2040
Query 2063 GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCGCGAAACATCCGGAAGCCACATA 2122
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Sbjct 2041 GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCGCGAAGCATCCGGAAGCCACATA 2100
Query 2123 CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGATGCTGACTACCCGTATAG 2182
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Sbjct 2101 CTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGTGCTGGTGCATACCCGTATAG 2160
Query 2183 CTTTGGGCAATCCTTTGTACCATCAATACACATATCAAAGTCAGGATGTACGTGGG 2242
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Sbjct 2161 GCTTTGGCAATTATCCTTTGTACCATCAATACACATATTTAAATACAGGATGTACGTGGG 2220
Query 2243 AGGGGTCGAGCAGAGCTGGAAGCGGCGCTGCAACTGGACGCGGGGCGAACGCTGTGATCT 2302
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Sbjct 2221 AGGGGTCGAACACAGGCTGGAAGCTGCTGCAACTGGACGCGGGGCGAACGTTGCGATCT 2280
Query 2303 GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCACACAGTGGCAGGT 2362
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Sbjct 2281 GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGCTGACCATACACAGTGGCAGGT 2340
Query 2363 CCTTCGGTGTCTTTTCAGACCCCTGCGAGCCTTGTGTCACCGGCTCATCCACCTCCACCA 2422
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Sbjct	2341	CCTCCCGTGTTCCTTCCACAACCTACCAGCCTTGTCACCGGGCTCATCCACCTCCACCA	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTGGGCCAT	2460
Query	2483	TAAGTGGGAGTAGCTCGTTCTCCTGTTCTTCTGCTGTCAGACGCGCGCTGCTGCTCTG	2542
Sbjct	2461	TAAGTGGGAGTAGCTCGTTCTCCTGTTCTTCTGCTGTCAGACGCGCGCTGCTGCTCTG	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGCGCGCTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGCGCGCTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCTTGGCGGGACGCACGGTCTTGTGTCCTTCTCGTGTCTTCTGCTT	2662
Sbjct	2581	TAATGCAGCATCCTTGGCGGGACGCACGGTCTGTATCCTTCTCGTGTCTTCTGCTT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TGCTATGTTATTGAAGGGTAAGTGGGTGCCCGAGCGGTCTACACCTTCTACGGGATGTG	2700
Query	2723	GCCTCTCCTCTCTGCTCCTGCTGCGGTGCTCAGCGGGCATAACGACTGGACACGGAGGT	2782
Sbjct	2701	GCCTCTCCTCTCTGCTCCTGTTGGCGTGGCCAGCGGCGCTACGCGCTGGACACGGAGGT	2760
Query	2783	GGCCGCGCTCGTGTGGCGCGGTGTTCTTGTGCGGGTTAATGGCGCTGACTCTGTGCGCATA	2842
Sbjct	2761	GGCCGCGCTCGTGTGGCGCGGTGTTCTTCTGCTGCGGTGATGGCGCTGACTCTGTGACCCATA	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTCTGACACAGATAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTCTGACACAGATGGA	2880
Query	2903	AGCGCAACTGCAGGTGTGGGTTTCCCCCTCAACGTCGGGGGGGCGCGATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCAGGTGTGGATTCCCCCTCAACGTCGGAGGGGGCGCGACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCTGGTATTTGACATCACCAAACTACTCTGTG	3021
Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAAATGCTGCTGG	3000
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGGCTTAAAGTCCCTACTCTGTGC	3081
Sbjct	3000	CCGCTCTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGGCTTAAAGTACCTACTTTGTGC	3059
Query	3082	CGGTTCGAAGGCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGAGGTCATTAC	3140
Sbjct	3060	CGGTTCGAAGGCTTCTCCGGTCTGCGCGTITAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201	ACCCCTCTTCGAGACTGGGCGCAACAACGGCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCTCTTCGGGACTGGGCGCAACAACGGCTTGGCGAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTCGCTCTTCCCGAATGGAGACCAAGCTCATACGTGGGGGGGAGATACCGCCGCTGTC	3320
Sbjct	3239	GTCGCTCTTCCCAATGGAGACCAAGCTCATACGTGGGGGGGAGATACCGCCGCTGTC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCGAGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCCCTGTTTCCGCCGAGGGGCGGAGATACTGCTCGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATACGGCGTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCTCCTAGGGTGATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACGAGGGGCTCCTAGGGTGATAATCACCAGCCTAAGTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCACTGCTACCAAACTTCTTGGCAACGTGC	3560

Sbjct	3479	CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCAAACCTTCTTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTTGGACTGTCTACCACGGGGCGGAAACGAGGACCATCGCATACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTTGGACTGTCTACCACGGGGCGGAAACGAGGACCATCGCGTACCC	3598
Query	3621	AAGGGTCTCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCTCTGTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	CCGCAAGGTAGCGCTCATTGACACCTGCACCTTGGGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTCAATCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTCAATCCCGTGCGCCGGGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCCGGCCATTTCTACTTGAAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCGCGG	3860
Sbjct	3779	TCGCCCCGGCCATTTCTACTTGAAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCGCGG	3838
Query	3861	GGACACGCCGTGGGCTATTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGACACGCCGTGGGCTATTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3898
Query	3921	GACTTTATCCCTGTGAGAACCTAGGACAACCATGAGATCCCGGTGTTACGAGCAAC	3980
Sbjct	3899	GACTTTATCCCTGTGAGAACCTAGAGACAACCATGAGGTCCCGGTGTTACGAGTAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGTGCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCACCGG	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGTGCCAGAGCTTCCAGGTGGCTCACTCCATGCTCCACAGC	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGACGCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	AGCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCTTAATATCAGGACCGGGGTGAGAACAAATACCACCTGGCAGCCCCATCAGGTAC	4220
Sbjct	4139	ATCGATCTTAATATCAGGACCGGGGTGAGAACAAATACCACCTGGCAGCCCCATCAGGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCTTGTCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACCTACGGCAAGTTCTTGTCCGACGGCGGGTGCTCGGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTGTGTACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACGTGTCCTT	4340
Sbjct	4259	ATTGTGTACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACGTGTCCTT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGG	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACCGCACCCCTCCGGGG	4378
Query	4401	TCGGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACACCGGAGAGATC	4460
Sbjct	4379	TCGGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAGACATCTCATCTTC	4520
Sbjct	4439	CCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGAAGTGCAGCAGCTCGCCGCGAAGCTGGTCGATTGGGCATCAAT	4580
Sbjct	4499	TGTCAATCAAAGAAGAAGTGCAGCAGAACTCGCCGCGAAGCTGGTCGATTGGGCATCAAT	4558
Query	4581	GCCGTGGGCTACTACCGCGGTCTTGACGTGTCTGTATCCCGACCAAGCGGCGATGTTGTC	4640
Sbjct	4559	GCCGTGGGCTACTACCGCGGTCTTGACGTGTCCGTCATCCCGACCAAGCGGCGATGTTGTC	4618
Query	4641	GTGCTGTGCACCGATGCTCTATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700

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Sbjct 4619 GTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGGCGACTTCGACTCGGTGATAGAC 4678
Query 4701 TGCACACAGTGTGTCTACTCAGACAGTCGATTTTCAGCCTTCAGCCTACCTTTTACCATTGAG 4760
Sbjct 4679 TGCATACGTGTGTGCCACCGACAGTCGATTTTCAGCCTTCAGCCTACCTTTTACCATTGAG 4738
Query 4761 ACAACCAAGCTCCCGCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTTGGCAGG 4820
Sbjct 4739 ACAATCAGCTCCCGCAGGATGCTGTCTCCCGACTCAACGTCGGGGCAGGACTTGGCAGG 4798
Query 4821 GGGAGGCCAGGCATCTATAGATTTTGTGGCACCGGGGGAGCGCCCTCCGGCATGTTTCGAC 4880
Sbjct 4799 GGGAGGCCAGGCATCTACAGATTTTGTGGCACCGGGGGAGCGCCCTCCGGCATGTTTCGAC 4858
Query 4881 TCGTCCGCTCTGTGTGATGCTATGACGCGGGCTGTGCTTGGTATGAGCTCAGCCCCGCC 4940
Sbjct 4859 TCGTCCGCTCTGTGTGATGCTATGACGCGGGCTGTGCTTGGTATGAGCTCAGCCCCGCC 4918
Query 4941 GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC 5000
Sbjct 4919 GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC 4978
Query 5001 CATCTTGAAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCACCTTTT 5060
Sbjct 4979 CATCTTGAAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCACCTTTCT 5038
Query 5061 TCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG 5120
Sbjct 5039 TCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG 5098
Query 5121 TCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACAGATGTGGAAGTGTGTTGATCCGC 5180
Sbjct 5099 TCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACAGATGTGGAAGTGTGTTGATCCGC 5158
Query 5181 CTTAACCACCCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAA 5240
Sbjct 5159 CTTAAGCCACCCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAA 5218
Query 5241 GAAGTCACCCCTGACGCACCCAATACCAAATACATCATGACATGCATGTCGGCCGACCTG 5300
Sbjct 5219 GAAATCACCCTGACGCACCCAGTCACCAAATACATCATGACATGCATGTCGGCCGACCTG 5278
Query 5301 GAGGTCGTACAGGACCTGGGTGCTCGTTGGCGGCTCCTGGCTGCTCTGGCCGCGTAT 5360
Sbjct 5279 GAGGTCGTACAGGACCTGGGTGCTCGTTGGCGGCTCCTGGCTGCTCTGGCCGCGTAT 5338
Query 5361 TGCCGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGA 5420
Sbjct 5339 TGCCGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGA 5398
Query 5421 ATTATACCTGACAGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA 5479
Sbjct 5399 ATCATACCTGACAGGAGGTTCTCTACCAG-AGTTCGATGAGATGGAAGAGTGCTCTCA 5457
Query 5480 GCACCTACCGTACATCGAGCAAGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT 5539
Sbjct 5458 GCACCTACCGTACATCGAGCAAGGATGATGCTCGCGAGCAGTTCAAGCAGAAGGCCCT 5517
Query 5540 CGGCTCTCTGAGACCGGCTCCCGCATGAGAGGTTATACCCCTGCTGTCCAGACCAA 5599
Sbjct 5518 CGGCTCTCTGAGACCGGCTCCCGTCAGGACAGGTTATCGCCCTGCTGTCCAGACCAA 5577
Query 5600 CTGGCAAAAACCTCGAGGCTCTTTTGGGCGAAGCATAATGGAATTTTCATCAGTGGGATACA 5659
Sbjct 5578 CTGGCAAAAACCTCGAGGCTCTTTTGGGCGAAGCATAATGGAATTTTCATCAGTGGGATACA 5637
Query 5660 ATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCATTTGCTTCAATTGATGCGCTT 5719
Sbjct 5638 ATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCATTTGCTTCAATTGATGCGCTT 5697
Query 5720 TACAGCTGCCGTACCCAGCCCACTAACCACTGGCCAAACCCCTCCTCTTCAACATATTggg 5779
Sbjct 5698 TACAGCTGCTGTACCCAGCCCACTAACCACTAGCCAAACCCCTCCTCTTCAACATATTGGG 5757
Query 5780 ggggTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGGCGCTACTGCTCTTGTGGGTGCTGG 5839
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Sbjct	5758	GGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCTCTTTGTGGGCGCTGG	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCTCTGTTGACATCTCTTCG	5899
Sbjct	5818	CTTAGCTGGCGCCGCCATCGGCAGTGTGGACTGGGGAAGGTCTCATAGACATCTCTTCG	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGCGCATCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCGCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCGCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCTCTCGCCGGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGACAGCAATCTGCGCCGGCAGCTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGGAACCATGTTTCCCCACGCA	6139
Sbjct	6058	GCAATGGATGAACCGGCTGTAGCCTTCGCCCTCCCGGGGGAACCATGTTTCCCCACGCA	6117
Query	6140	CTACGTGCCGGAGAGCGATGACGCGCCCGCGCTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGATGACGCTGCCCGCGCTCACTGCCATACTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACCTCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCACTGGATAAGCTCGGAGTGTACCACCTCCATGCTC	6237
Query	6260	CGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACITTAAGAC	6319
Sbjct	6238	CGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	6297
Query	6320	CTGGCTGAAAGCCAAAGCTCATGCCACAACCTGCGTGGGATTCCCTTTGTGTCTGCGCAGCG	6379
Sbjct	6298	CTGGCTGAAAGCTAAGCTCATGCCACAGCTGCGTGGGATTCCCTTTGTGTCTGCGCAGCG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	CGGGTATAGGGGGGTCTGGCAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCA	6476
Query	6499	GGAACTATGTGGAGTGGGACGTTCCCAATTAAACGCTACACACGGGGCCCTGTACTCCCC	6558
Sbjct	6477	GGAACTATGTGGAGTGGGACCTTCCCAATTAAAGCTACACACGGGGCCCTGTACTCCCC	6536
Query	6559	TTCTGCGCGCAACTATAAGTTTCGCGCTGTGGAGGGTGTCTGACAGGGAATACGTGGAGA	6618
Sbjct	6537	TTCTGCGCGCAACTACACGTTTCGCGCTATGGAGGGTGTCTGACAGGGAATATGTGGAGA	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGGCAAGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGACGGGTGCGCCTACACAGG	6737
Sbjct	6656	CCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGACGGGTGCGCCTACATAGG	6715
Query	6738	TTTGCGCCCCCTTGCAGGCCCTTGCTGCGGGAGGAGGTATCATTACAGATAGGACTCCAC	6797
Sbjct	6716	TTTGCGCCCCCTTGCAGGCCCTTGCTGCGGGAGGAGGTATCATTACAGATAGGACTCCAC	6775
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCAACCGGACGTAGCCGTTTGACG	6857
Sbjct	6776	GAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCAACCGGACGTAGCCGTTTGACG	6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCGGGGAGAAGGTTGGCGAGA	6917
Sbjct	6836	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCGGGGAGAAGGTTGGCGAG-	6894
Query	6918	GGG-TACCCCTTCTATGGCAGCTCCTCGGCTAGCCAGCTGTCGCTCCATCTCTCAA	6976

Sbjct	6895	GGGATCACCCCTCTGTGGCCAGCTCCCTCGGCTAGCCAGCTATCCGCTCCATCTCTCAA	6954
Query	6977	GGCAACTTGCACGCCCAACCATGACTCCCTGACGCGGAGCTCATAGAGGCTAACCTCTCT	7036
Sbjct	6955	GGCAACTTGCACGCTTAACCATGACTCCCTGATGCTGAGCTCATAGAGGCCAACCTCTCT	7014
Query	7037	GTGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015	ATGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTGAGTCAGAAAAACAAAGTGGTGAT	7074
Query	7097	TCGTGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075	TCGTGACTCCTTCGATCCGCTTGTGGCAGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157	AGAAATTCTCGGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCGTCTGGGCGGGCCGGA	7216
Sbjct	7135	AGAAATCTCTCGGGAAGTCTCGGAGATTGCCCCAGGCCCTGCCCGTTTGGGCGGGCCGGA	7194
Query	7217	CTACAAACCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACGAACCACTGTGGTCCA	7276
Sbjct	7195	CTATAACCCCGCTAGTAGAGAGCTGGAAAAAGCCGAGTACGAACCACTGTGGTCCA	7254
Query	7277	TGGCTGCCCGCTACCACCTCCACGGTCCCTCTGTGCCCTCCGCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TGGCTGTCGCTTCCACCTCCAAGTCCCTCTGTGCCCTCCGCTCGGAAGAGCGGAC	7314
Query	7337	GGTGGTCTCTACCGAATCAACCCCTATCTACTGCCTTGGCCGAGCTTGGCACCAAAAGTTT	7396
Sbjct	7315	GGTGGTCTCTCACTGAATCAACCCCTATCTACTGCCTTGGCCGAGCTTGGCACCAAGCTT	7374
Query	7397	TGGCAGCTCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCTCTGAGCCCGC	7456
Sbjct	7375	TGGCAGCTCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCTCTGAGCCCGC	7434
Query	7457	CCCTTCTGGCTGCGGCGGACTCCGACGTTGAGTCCATTCTCTCCATGCGGCGCGTGA	7516
Sbjct	7435	CCCTTCTGGCTGCCCGCGGACTCCGACGCTGAGTCCATTCTCTCCATGCCCGCGCTGA	7494
Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGGTCAGTAGTGGGC	7576
Sbjct	7495	GGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCATGGTCACGGTCAGTAGTGGGC	7554
Query	7577	CGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATCTCTGGACAGGCGCACTCGTCAC	7636
Sbjct	7555	CAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACTCTTGGACAGGCGCACTCGTCAC	7614
Query	7637	CCCGTGCCTGCGGAAGAACAACAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACG	7696
Sbjct	7615	CCCGTGCCTGCGGAAGAACAAGAACTGCCCATCAATGCACTAAGCAACTCGTTGCTACG	7674
Query	7697	CCATCACAAATCTGGTGTATTCCACCACCTTCACGCAAGTCTTGCCAAAGGCAGAGAAAGT	7756
Sbjct	7675	TCACCACAAATTTGGTGATTCCACCACCTTCACGCAAGTCTTGCCAAAGGCAGAGAAAGT	7734
Query	7757	CACATTGTACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735	CACATTGTACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTACTCAAGGAGGTAA	7794
Query	7817	AGCAGCGCGCTCAAAAGTGAAGGCTAACCTTGCTATCCGTAGAGGAAGCTTTCAGCCTGAC	7876
Sbjct	7795	AGCAGCGCGCTCAAAAGTGAAGGCTAACCTTGCTATCCGTAGAGGAAGCTTTCAGCCTGAC	7854
Query	7877	GCCCCACAACTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAGAGCTCCGTTGCCATGC	7936
Sbjct	7855	GCCCCACAACTACGCCAAATCCAAGTTTGGTTATGGGGCAAAAGAGCTCCGTTGCCATGC	7914
Query	7937	CAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGAGCCTTCTGGAAGACAGTGTAAAC	7996
Sbjct	7915	CAGAAAGGCCGTAAACCACATCAACTCCGTGTGGAAGAGCCTTCTGGAAGACAAATGTAAAC	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTACGCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTACGCTGAGAAGGG	8034
Query	8057	GGGTGCTAAGCCAGCTCGTCTCATCGTGTCCCGGACCTGGGCGTGGCGGTGTGCGGAA	8116

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Sbjct  8035 GGGTCGTAAGCCAGCTCGTCTCATCGTGTCCCCGATCTGGGCGTGCGCGGTGTCGAAAA 8094
Query   8117 GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGCGATGGGAAGCTCTCTACG 8175
Sbjct  8095 GATGCGTTTGTACGACGTGGTTA-CAAAGCTCCCCCTGGCCGCGATGGGAAGCTCTCTACG 8153
Query   8176 GATTCCAATACTACACGAGCAGCGGGTTGAATTCTCTGTCGCAAGCGTGGAAAGTCCAAGA 8235
Sbjct  8154 GATTCCAATACTACACGAGCAGCGGGTTGAATTCTCTGTCGCAAGCGTGGAAAGTCCAAGA 8213
Query   8236 AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG 8295
Sbjct  8214 AAAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTGTACTCCACAGTCACTGAGAGCG 8273
Query   8296 ACATCCGTACGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCTGG 8355
Sbjct  8274 ACATCCGTACGAGGAGGCAATCTACCAATGTTGTGACCTGACCCCCAAGCCCGCTGG 8333
Query   8356 CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG 8415
Sbjct  8334 CCATCAAGTCCCTCACCAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG 8393
Query   8416 AAAACTGCGGCTACCCGAGGTGCCGCGCAGCGCGTACTGACAACTAGCTGTGGTAAACA 8475
Sbjct  8394 AGAACTGCGGCTATCGCAGGTGCCGCGCAGCGCGTACTGACAACTAGCTGTGGTAAACA 8453
Query   8476 CCTCCTACTGTCTACATCAAGGCCCGGGCAGCCTGTCTGAGCCGAGGGCTCCAGGACTGCA 8535
Sbjct  8454 CCTCCTACTGTCTACATCAAGGCCCGGGCAGCCTGTCTGAGCCGAGGGCTCCAGGACTGCA 8513
Query   8536 CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTCGGGGGTCCAGGAGG 8595
Sbjct  8514 CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTCGGGGGTCCAGGAGG 8573
Query   8596 ACGGGGGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGCGCGCGCGGGG 8655
Sbjct  8574 ACGGGGGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGCGCGCGCGGGG 8633
Query   8656 ACGCGCGGACAACAGCAATACGACTTGGAGCTTATAACATCATGCTCCTCCAAGTGTCTAG 8715
Sbjct  8634 ACCCGCGGACAACAGCAATACGACTTGGAGCTCATAACATCATGCTCCTCCAAGTGTCTAG 8693
Query   8716 TCGCCACGACGCGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCTACAACCCCC 8775
Sbjct  8694 TCGCCACGACGCGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCTACAACCCCC 8753
Query   8776 TCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTTGGCTAGGCAACA 8835
Sbjct  8754 TCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTTGGCTAGGCAACA 8813
Query   8836 TAATCATGTTTGCCCCCACCCTGTGGGCGAGGATGATACTGATGACCAATTCTTTTAGGG 8895
Sbjct  8814 TAATCATGTTTGCCCCCACCCTGTGGGCGAGGATGATACTGATGACCAATTCTTTTAGGG 8873
Query   8896 TCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACCTGTGAGATCTACGGAGCCTGCT 8955
Sbjct  8874 TCCTTATAGCCAGGGACAGCTTGAACAGGCGCTCGATTGCGAGATCTACGGGCGCTGCT 8933
Query   8956 ACTCCATAGAACCACCTGGATCTACCTCCAATCATCAAGAGCTCCATGGCTCAGCGCAT 9015
Sbjct  8934 ACTCCATAGAACCACCTGTATCTACCTCCAATCATCAAGAGCTCCATGGCTCAGCGCAT 8993
Query   9016 TTCTACTCCACAGTACTCTCCAGGTGAAATCAATAGAGGTGGCCGATGCGCTCAGAAAAAC 9075
Sbjct  8994 TTCTACTCCACAGTACTCTCCAGGTGAAATTAATAGGGTGGCCGATGCGCTCAGAAAAAC 9053
Query   9076 TTGGGGTCCC GCCCTTTCGAGCTTGGAGACACCGGGGCCGAGCGTCCGCGCTAGGCTTC 9135
Sbjct  9054 TTGGGGTACCGCCCTTTCGAGCTTGGAGACACCGGGGCCGAGCGTCCGCGCTAGGCTTC 9113
Query   9136 TGTCCAGAGGAGGAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCGAGTAAGAA 9195
Sbjct  9114 TGGCCAGAGGAGGAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCGAGTAAGAA 9173
Query   9196 CAAAGCTCAAACCTACTCCAATAGCGGCGCTGGCCGGCTGGACTTGTCCGGTGTGTTCA 9255

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Sbjct  9174  CAAAGCTCAAACCTCACTCCAATAGCGGCCGTGGCCAGCTGGACCTTGTCGGGCTGGTTCA 9233
Query   9256  CGGCTGGCTACAGCGGGGAGACATTTATCAAGCGTGTCTCATGCCGGGCCCCGCTGGT 9315
          |||||
Sbjct  9234  CGGCTGGCTACAGCGGGGAGACATTTATCAAGCGTGTCTCATGCCGGGCCCCGCTGGA 9293
Query   9316  TCTGTTTTTGCTACTCTCTGCTCGCTGACAGGGGTAGGCATCTACCTCTCCCCAACCGAT 9375
          |||||
Sbjct  9294  TCTGTTTTTGCTACTCTCTGCTTGTGACAGGGGTAGGCATCTACCTCTCCCCAACCGAT 9353
Query   9376  GAAGGTTGGGGTAAACACTCCGGCCT 9401
          |||||
Sbjct  9354  GAAGGTTGGGGTAAACACTCCGGCCT 9379
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>dbj|DL212380.1| HEPATITIS C VIRUS (HCV) POLYPEPTIDES
Length=9379

Score = 1.516e+04 bits (8209), Expect = 0.0
Identities = 8996/9386 (95%), Gaps = 14/9386 (0%)
Strand=Plus/Plus

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Query   23      CACTCCACCAATGAATCACTCCCCTGTGAGGAAGTACTGTCTTCACGCAGAAAGCGCTCTAG 82
          |||||
Sbjct   1      CACTCCACCAATGAATCACTCCCCTGTGAGGAAGTACTGTCTTCACGCAGAAAGCGCTCTAG 60
Query   83      CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAACCGGCTCCCGGGAGAGCCATA 142
          |||||
Sbjct  61      CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGACCCCGCTCCCGGGAGAGCCATA 120
Query   143     GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACGGGTCTCTTTCTTGA 202
          |||||
Sbjct  121     GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACGGGTCTCTTTCTTGA 180
Query   203     TAAACCCGCTCAATGCGTGGAGATTGGGCGTGCCCCCGAAGACTGTAGCCGAGTAGT 262
          |||||
Sbjct  181     TAAACCCGCTCAATGCGTGGAGATTGGGCGTGCCCCCGAAGACTGTAGCCGAGTAGT 240
Query   263     GTTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGGGTGCTTGCAGTGTCCCGGGAG 322
          |||||
Sbjct  241     GTTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGGGTGCTTGCAGTGTCCCGGGAG 300
Query   323     GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACAAACGTAA 382
          |||||
Sbjct  301     GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACAAACGTAA 360
Query   383     CACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTGGCGGTGAGTGTGGTGGAGT 442
          |||||
Sbjct  361     CACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTGGCGGTGAGTGTGGTGGAGT 420
Query   443     TTACTTGTGTGCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA 502
          |||||
Sbjct  421     TTACTTGTGTGCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA 480
Query   503     GCGGTGCGAACCTCGAGGTAGACGTACGCCTATCCCCAAGGCACGTCGGCCCGAGGGCAG 562
          |||||
Sbjct  481     GCGGTGCGAACCTCGAGGTAGACGTACGCCTATCCCCAAGGCTGTCGGCCCGAGGGCAG 540
Query   563     GACCTGGGCTCAGCCCGGTACCCCTTGCCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC 622
          |||||
Sbjct  541     GACCTGGGCTCAGCCCGGTACCCCTTGCCCCCTCTATGGCAATGAGGGTTCGCGGTGGGC 600
Query   623     GGGATGGCTCTGTCTTCCCGTGGCTCTCGGCCCTAGCTGGGGCCCCACAGAGCCCCGGGC 682
          |||||
Sbjct  601     GGGATGGCTCTGTCTTCCCGTGGCTCTCGGCCCTAGCTGGGGCCCCACAGAGCCCCGGGC 660
Query   683     TAGGTGCGCGCAATTGGGTAAGGTATCGATACCCCTTACGTGCGGCTTCGCCGACCTCAT 742
          |||||
Sbjct  661     TAGGTGCGCGCAATTGGGTAAGGTATCGATACCCCTTACGTGCGGCTTCGCCGACCTCAT 720
Query   743     GGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGG 802
          |||||
Sbjct  721     GGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGG 780
Query   803     CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT 862
          |||||

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Sbjct	781	CGTCCGGGTTCGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT	840
Query	863	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCGCTCAGCCTACCAAGT	922
Sbjct	841	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCGCTTCGGCCTACCAAGT	900
Query	923	CGCGAATTCTCTGGGGCTTTACCATGTACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	CGCGAATTCACGGGGCTTTACCATGTACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGGCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTCGCTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCGGGCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTCGCTTCGCGAGGGCAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTACCCCCACGGTGGCCACAGGACGCGAACTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGGTACCCCCACGGTGGCCACAGGATGCGAACTCCC	1080
Query	1103	CACAACGCGAGCTTCGACGTCATATCGATCTGCTTGTGCGGAGCGCCACCCCTCTGCTCGGC	1162
Sbjct	1081	CCGACGCGAGCTTCGACGTCATATCGATCTGCTTGTGCGGAGCGCCACCCCTCTGCTCGGC	1140
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTGTGTTGCAACTGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGGGACCTATGCGGGTCTGCTTTCTTGTGCGGCAACTGTTTACCTTCTC	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGGCATATAAC	1282
Sbjct	1201	TCCCAGGCGCCACTGGACGACGCAAGGTGCAATTGCTCTATCTATCCCGGCATATAAC	1260
Query	1283	GGGTATCGCATGGCATGGGATATGATGATGAAGTGGTCCCTACGGCAGGCTTGGTGT	1342
Sbjct	1261	GGGTACCGCATGGCATGGGATATGATGATGAAGTGGTCCCTACGACGGCGTTGGTAA	1320
Query	1343	AGCTCAGCTGCTCCGGATCCACAAGCCATCATGGACATGATCGCTGGTGTCTACTGGGG	1402
Sbjct	1321	GGCTCAGCTGCTCCGGATCCACAAGCCATCTTGGACATGATCGCTGGTGTCTACTGGGG	1380
Query	1403	AGTCCTGGCGGGCATAGCGTATTCTCCATGGTGGGGAACCTGGGCGAAGGTCTTGGTAGT	1462
Sbjct	1381	AGTCCTGGCGGGCATAGCGTATTCTCCATGGTGGGGAACCTGGGCGAAGGTCTTGGTAGT	1440
Query	1463	GCTGCTGCTATTGTGCCGCGTCGACGCGGAAACCCACGTCACCGGGGAAATGCCGGCCG	1522
Sbjct	1441	GCTGCTGCTATTGTGCCGCGTCGACGCGGAAACCCACGTCACCGGGGAAATGCCGGCCA	1500
Query	1523	CACCACGGCTGGGCTTGTGGTCTCCTTACACACAGGCGCCAAAGCAGAACATCCAACGTAT	1582
Sbjct	1501	CACTGTGCTGGATTGTGTAGCCTCTCGCACCAGGCGCCAAAGCAGACGTCCAGCTGAT	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCAGCGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCTCAATAGCAGCGCCTGAATGCAATGATAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATCAACTCTTCAGGCTGTCTCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCTCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCAGCGCCTTACCGATTTTGCCAGGGCTGGGGTCTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCAGCCCTTACCGATTTTGACACGGGCTGGGGCCTATCAGTTA	1740
Query	1763	TGCCAACGGGAAGCGGCTTCGACGAACGCCCTACTGCTGGCACTACCTCCGAAGACCTTG	1822
Sbjct	1741	TGCCAACGGGAAGCGGCCCCGACGAGCGCCCTACTGCTGGCACTACCCCCAAAACCTTG	1800
Query	1823	TGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCAGCCCCGT	1882
Sbjct	1801	CGGTATTGTGCCCGCAAGAGTGTGTGGTCCGGTATATTGCTTCACTCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACCGACAGGTGCGGCGCGCCTACCTACAGCTGGGGTGCAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACCGACAGGTGCGGCGCGCCACCTACAGCTGGGGTGAAAAATGATAC	1920
Query	1943	GGATGCTCTTCGCTCTTAACAACACGAGGCCACCGCTGGGCAATTGGTTGCGTTGACCTG	2002

Sbjct	1921	GGACGCTCTTCGCTCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	1980
Query	2003	GATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTTCATCGGAGGGGT	2062
Sbjct	1981	GATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTTCATCGGAGGGGC	2040
Query	2063	GGGCAACAAACACCTTGCTCTGCCCACTGATTGCTTCCGAAACATCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACAAACACCTTGCTCTGCCCACTGATTGCTTCCGAAACATCCGGAAGCCACATA	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGATGGTCGACTACCCGTATAG	2182
Sbjct	2101	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCTGGTCGACTACCCGTATAG	2160
Query	2183	GCTTTGGCACTATCCTTGTACCAATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCACTATCCTTGTACCAATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2220
Query	2243	AGGGGTGCGAGCACAGGCTGGAAGCGGCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTGCGAGCACAGGCTGGAAGCTGCTGCAACTGGACGCGGGGCGAACGTTGCGGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCCGTGTCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbjct	2281	GGAAGACAGGGACAGGTCCGAGCTCAGCCCCGTGTCTGCTGTCCACCACACAGTGGCAGGT	2340
Query	2363	CCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCACCGGCTCATCCACCTCCACCA	2422
Sbjct	2341	CCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCACCGGCTCATCCACCTCCACCA	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTTGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTTGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTGCTTCTCTGTTCTTCTGCTGTCAGACGCGCGCTGCTGCTCTG	2542
Sbjct	2461	TAAGTGGGAGTACGTGCTTCTCTGTTCTTCTGCTGTCAGACGCGCGCTGCTGCTCTG	2520
Query	2543	CTTGTTGATGATGTTACTCATATCCCAAGCGGAGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTTGTTGATGATGCTACTCATATCCCAAGCGGAGCGGCTTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCTCGTGTCTTCTGCTT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCTTCTCGTGTCTTCTGCTT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGAGCGGCTACGCCCTTACGGGATGTG	2722
Sbjct	2641	TGCATGGTATTTGAAGGGTAGGTGGGTGCCCGAGCGGCTACACCTTCTACGGGATGTG	2700
Query	2723	GCCTCTCCTCCTGCTCCTGCTGGCGTTGCTCAGCGGGCATACGCACTGGACACGGAGGT	2782
Sbjct	2701	GCCTCTCCTCCTGCTCCTGCTGGCGTTGCTCAGCGGGCATACGCGCTGGACACGGAGGT	2760
Query	2783	GGCCGCGTCTGTTGGCGGCGTGTGTTCTTGTGCGGGTTAATGGCGCTGACTCTGTGCCATA	2842
Sbjct	2761	GGCCGCGTCTGTTGGCGGCGTGTGTTCTTGTGCGGGTTGATGGCGCTGACTCTGTGCCATA	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTTCGACACAGAGTAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTTCGACACAGAGTAGA	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTTCCCGCTCAACGTCCTCGAGGGGGCGGACGCGGTCAT	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGGTTTCCCGCTCAACGTCCTCGAGGGGGCGGACGCGGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCTGGTATTTGACATCACCAAATCTCTCTGG	3021
Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAATGCTGCTGG	2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGGCTTAAAGTCCCTACTTCGTGC	3081
Sbjct	3000	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGGCTTAAAGTACCTTACTTTGTGC	3059
Query	3082	GC GTTCAAGGCCCTTCTCCGATCTGCGGCTAGCGCGGAAGAT-AGCGGAGGTCATTAC	3140

Sbjct	3060	GCCTCCAAGGCTTCTCCGGTTCGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201	ACCCCTCTTCGAGACTGGGCGCAACAACGGCTGCGAGATCTGGCCGTGGCTGTGGAAACCA	3260
Sbjct	3179	ACTCTCTTCGAGACTGGGCGCAACAACGGCTGCGAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTCGCTCTTCTCCCGAATGGAGACCAAGCTCATCAGTGGGGGCGAGATACCGCCGCGTGC	3320
Sbjct	3239	GTCGCTCTTCTCCCGAATGGAGACCAAGCTCATCAGTGGGGGCGAGATACCGCCGCGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGAGGGGCCAGGAGATACGCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGAGGGGCCAGGAGATACGCTTGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTGTGCTGGCGCCCATCACGGCTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTGTGCTGGCGCCCATCACGGCTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCCTAAGTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCTTGGCAACGTGC	3560
Sbjct	3479	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTGCCAAACCTTCTTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGAACGAGGACATCGCATACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGAACGAGGACATCGCTACCC	3598
Query	3621	AAGGGTCTGTGATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCTGTGATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCAITGACACCCGTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	CCGCAAGGTAGCCGCTCAITGACACCCGTGCACTTGGGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTGATTCCTCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTGATTCCTCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCCTGCTT	3778
Query	3801	TCGCCCCGGCCCAITTCCTACTTGAAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCGCGG	3860
Sbjct	3779	TCGCCCCGGCCCAITTCCTACTTGAAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCGCGG	3838
Query	3861	GGACACGCGGTGGGCTATTAGGGCGCGGCTGTGACCCGTTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGACGCGGTGGGCTATTAGGGCGCGGCTGTGACCCGTTGGAGTGGCTAAAGCGGTG	3898
Query	3921	GACTTTATCCCTGTGAGAACTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGAGAACTAGAGACAACCATGAGGTCCCCGGTGTTCACGGATAAC	3958
Query	3981	TCCTCTCCACAGCAGTGGCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCACCCGGC	4040
Sbjct	3959	TCCTCTCCACAGCTAGTGGCCAGAGCTTCCAGGTGGCTCACCTGCATGCTCCACAGCG	4018
Query	4041	AGCGGTAAGAGCACAAGGTCCCGGCTGCGTACGACGACGAGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	AGCGGCAAAAGCACCAGGTCCCGGCTGCATATGACGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAAATACCACCTGGCAGCCCCATCAGGTAC	4220
Sbjct	4139	ATCGATCCTAATATCAGGACCGGGGTGAGAACAAATACCACCTGGCAGCCCCATCAGGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280

Sbjct	4199	TCCACCTACGGCAAGTTCCCTTGCCGACGGCGGGTGCTCGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTTTGTGACGAGTGGCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACGTGTCCTT	4340
Sbjct	4259	ATTTTGTGACGAGTGGCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACGTGTCCTT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACCGCACCCCTCCGGGC	4378
Query	4401	TCCGTCACTGTGTCCCATCTTAACATCGAGGAGGTGTCTGTGCCACCACCGGAGAGATC	4460
Sbjct	4379	TCCGTCACTGTGTCCCATCTTAACATCGAGGAGGTGTCTGTGCCACCACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGATGCGACGAGCTCGCCCGCAAGCTGGTCGATTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAAGAAGATGCGACGAACTCGCCGCAAGCTGGTCGATTGGGCATCAAT	4558
Query	4581	GCCGTGGGCTACTACCGCGGCTTTGACGTGTCTGTTCATCCCGACAGCGGCGATGTTGTC	4640
Sbjct	4559	GCCGTGGGCTACTACCGCGGCTTTGACGTGTCCGTTCATCCCGACAGCGGCGATGTTGTC	4618
Query	4641	GTCGTGTGACCGGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4619	GTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGGCGACTTCGACTCGGTGATAGAC	4678
Query	4701	TGCAACACGTGTGTGCTCACTCAGACAGTCGATTTACGCTTGACCTTACCTTTACATTGAG	4760
Sbjct	4679	TGCAATACGTGTGTGCCAGACAGTCGATTTACGCTTGACCTTACCTTACATTGAG	4738
Query	4761	ACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCGGGGAGGACTTGCAGG	4820
Sbjct	4739	ACAATACGCTCCCCAGGATGCTGTCTCCGCACTCAACGTGGGGAGGACTTGCAGG	4798
Query	4821	GGGAAGCCAGGCACTATAGATTTGTGGCACCGGGGGAGCGCCCTCCGGCATGTTTCGAC	4880
Sbjct	4799	GGGAAGCCAGGCACTATAGATTTGTGGCACCGGGGGAGCGCCCTCCGGCATGTTTCGAC	4858
Query	4881	TCGTCCGTCTCTGTGAGTGTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4940
Sbjct	4859	TCGTCCGTCTCTGTGAGTGTATGACGCGAGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	4978
Query	5001	CATCTTGAATTTTGGGAGGCGTCTTTACGGGCTCACTCATATAGATGCCCACTTTTCTA	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGCGTCTTTACGGGCTCACTCATATAGATGCCCACTTTTCTA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCCTTACCTGGTAGCGTACCAAGCCACCGTG	5098
Query	5121	TGCGCTAGGGCTCAAGCCCCCTCCCATCGTGGGACAGATGIGGAAGTGTGATCCGC	5180
Sbjct	5099	TGCGCTAGGGCTCAAGCCCCCTCCCATCGTGGGACAGATGIGGAAGTGTGATCCGC	5158
Query	5181	CTTAACCCACCTCTTACATGGGCCAACCCCTGCTATACAGACTGGGCGCTGTTCAGAAAT	5240
Sbjct	5159	CTCAAGCCACCTCTCATGGGCCAACCCCTGCTATACAGACTGGGCGCTGTTCAGAAAT	5218
Query	5241	GAAGTCAACCTGACGACCCCAATACCAAATACATCATGACATGCATGTCGGCCGACCTG	5300
Sbjct	5219	GAAATCAACCTGACGACCCAGTACCAAATACATCATGACATGCATGTCGGCCGACCTG	5278
Query	5301	GAGGTGCTCAGGACACCTGGGTGCTCGTTGGCGGCTCCTGGCTGCTCTGGCCGCGTAT	5360
Sbjct	5279	GAGGTGCTCAGGACACCTGGGTGCTCGTTGGCGGCTCCTGGCTGCTCTGGCCGCGTAT	5338
Query	5361	TGCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGATCGTCTTGTTCGGGAAGCCGGCA	5420

Sbjct	5339	TGCCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGGTCGCTCTGTCCGGGAAGCCGGCA	5398
Query	5421	ATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	ATCATACCTGACAGGGAAGTCTCTACCAG-AGTTCGATGAGATGGAAGAGTGCTCTCA	5457
Query	5480	GCACCTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	GCACCTTACCGTACATCGAGCAAGGGATGATGCTCGCGAGCAGTTCAAGCAGAAGGCCCT	5517
Query	5540	CGGCTCTCTGCAGACCGCGTCCCAGCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518	CGGCTCTCTGCAGACCGCGTCCCAGCATGCAGAGGTTATCGCCCTGCTGTCCAGACCAA	5577
Query	5600	CTGGCAGAAACTCGAGGCTCTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACA	5659
Sbjct	5578	CTGGCAAAACTCGAGACCTTCTGGGCGAAGCATATGTGGAATTCATCAGTGGGATACA	5637
Query	5660	ATACCTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638	ATACCTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5697
Query	5720	TACAGCTGCCGTACACAGCCCACTAACCACTGGCCAAACCCCTCCTCTTCAACATATTggg	5779
Sbjct	5698	TACAGCTGCTGTACACAGCCCACTAACCACTAGCCAAACCCCTCCTCTTCAACATATTGGG	5757
Query	5780	ggggTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCGCTACTGCGCTTTTGGGTGCTGG	5839
Sbjct	5758	GGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCGCTACTGCGCTTTTGGGTGCTGG	5817
Query	5840	CCTAGCTGGCGCCGCCATCGCAGCGTTGGACTGGGGAAGGTCTCTGTGGACATTTCTGC	5899
Sbjct	5818	CCTAGCTGGCGCCGCCATCGCAGTGTGGACTGGGGAAGGTCTCATAGACATCTTGC	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGGTGGTCTGTGCAAGTACTGCGCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACATGTTTCCCCACGCA	6139
Sbjct	6058	GCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGGAACATGTTTCCCCACGCA	6117
Query	6140	CTACGTGCCGGAGAGCGATGACAGCCGCCGCTCACTGCCATACTACGACGCCCTACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGATGACAGCTGCCGCTCACTGCCATACTACGACGCCCTACTGT	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGACCCTCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCAAGTGGATAAGCTCGGAGTGACCCTCCATGCTC	6237
Query	6260	CGGTTCCTGGCTAAGGGACATCTGGGACTGGATAATCGAGGTGCTGAGCGCATTTAAGAC	6319
Sbjct	6238	CGGTTCCTGGCTAAGGGACATCTGGGACTGGATATCGGAGGTGTTGAGCGCATTTAAGAC	6297
Query	6320	CTGGCTGAAAGGCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCTGCCAGCG	6379
Sbjct	6298	CTGGCTGAAAGGCTAAGCTCATGCCACAGCTGCCTGGGATCCCTTTGTGTCTGCCAGCG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCAATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	CGGGTATAGGGGGGTCTGGCGAGT-GACGGCATATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCA	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCACGGGCGCCTGTACTCCCC	6558

Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCATTAATGCCTACACCACGGGCCCCGTGATACCCCC	6536
Query	6559	TTCTTGCGCCGAAGTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCTTGCGCCGAAGTACACGTTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGGACAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGACGGGTGCGCCTACACAGG	6737
Sbjct	6656	CCGTGCCAGGTCCCATCGCCGAATTTTTCACAGAATTGGACGGGTGCGCCTACATAGG	6715
Query	6738	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6797
Sbjct	6716	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6775
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCAGGCCGAACCGGACGTAGCCGTGTTGAGC	6857
Sbjct	6776	GAATACCCGGTAGGGTCGCAATTACCTTGCAGGCCGAACCGGACGTGGCCGTGTTGAGC	6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCGCGGAGAGGTTGGCGAGA	6917
Sbjct	6836	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCGCGGCGAGGTTGGCGAG-	6894
Query	6918	GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976
Sbjct	6895	GGGATCACCCCTTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCGCTCCATCTCTCAA	6954
Query	6977	GGCAACTTGCACCGCCCAACCATGACTCCCTGACGCCGAGCTCATAGAGGTAACCTCCT	7036
Sbjct	6955	GGCAACTTGCACCGCTAACCATGACTCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT	7014
Query	7037	GTGGAGGCAGGAGATGGGCGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015	ATGGAGGCAGGAGATGGGCGCAACATCACCAGGGTTGAGTCAGAAAAACAAAGTGGTGAT	7074
Query	7097	TCGTGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075	TCGTGACTCCTTCGATCCGCTTGTGGCAGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157	AGAAATCTCGCGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCGTCTGGGCGCGGCCGA	7216
Sbjct	7135	AGAAATCTCGCGAAGTCTCGGAGATTGCCCCAGGCCCTGCCCGTTGGGCGCGGCCGA	7194
Query	7217	CTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACACCTGTGGTCCA	7276
Sbjct	7195	CTATAACCCCCGCTAGTGGAGACGTGGAAAAAGCCGACTACGAACACCTGTGGTCCA	7254
Query	7277	TGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCTTCGCGTTCGGAAGAGCGTAC	7336
Sbjct	7255	TGGCTGCCCGCTTCCACCTCCAAGTCCCTCCTGTGCCTTCGCGTTCGGAAGAGCGGAC	7314
Query	7337	GGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAGCTTGGCACCAAAAGTTT	7396
Sbjct	7315	GGTGGTCTCCTCACTGAATCAACCTATCTACTGCCTTGGCCGAGCTTGGCACCAAGGCTT	7374
Query	7397	TGGCAGCTCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCTCTGAGCCCGC	7456
Sbjct	7375	TGGCAGCTCTCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCTCTGAGCCCGC	7434
Query	7457	CCCTTCTGGCTGCGCGCGGAGCTCCGACGTTGAGTCCCTATTCTTCCATGCGCGCGCTGGA	7516
Sbjct	7435	CCCTTCTGGCTGCGCGCGGAGCTCCGACGCTGAGTCCCTATTCTTCCATGCGCGCGCTGGA	7494
Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAATGTCAGCGGTGAGTAGTGGGGC	7576
Sbjct	7495	GGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCAATGTCAGCGGTGAGTAGTGGGC	7554
Query	7577	CGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGACAGGCGCACTCGTCAC	7636
Sbjct	7555	CAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACTCTTGGACAGGCGCACTCGTCAC	7614
Query	7637	CCCGTGCCTGCGGAAGAACAAAACTGCCATCAACGCACTGAGCAACTCGTTGCTACG	7696

Sbjct	7615	CCCCTGCGCCGCGGAAGAAGACAGAACTGCCCATCAATGCACTAAGCAACTCGTTGCTACG	7674
Query	7697	CCATCACAAATCTGGTGATTTCACCACTTCACGCAGTGCCTGCCAAAGGCAGAAAGAAAT	7756
Sbjct	7675	TCACCACAAATTTGGTGATTTCACCACTTCACGCAGTGCCTGCCAAAGGCAGAAAGAAAT	7734
Query	7757	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTACTCAAGGAGGTAA	7794
Query	7817	AGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACGCGTGAC	7876
Sbjct	7795	AGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACGCGTGAC	7854
Query	7877	GCCCCACATTACGCAAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCGCTTGCCATGC	7936
Sbjct	7855	GCCCCACACTACGCAAAATCCAAGTTTGGTTAIGGGGCAAAAGACGTCGCTTGCCATGC	7914
Query	7937	CAGAAAGGCCGTAGCCCAATCAACTCCGTGTGGAAGACCTTCTGGAAGACAGTGTAA	7996
Sbjct	7915	CAGAAAGGCCGTAAACCACATCAACTCCGTGTGGAAGACCTTCTGGAAGACAAATGTAA	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTACGCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTACGCTGAGAAGGG	8034
Query	8057	GGTTCGTAAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116
Sbjct	8035	GGTTCGTAAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCGTGCGCGTGTGCGAGAA	8094
Query	8117	GATGGCCCTGTACGAGCTGGTTAGCAA-GCTCCCTGCGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095	GATGGCTTTGTACGAGCTGGTTA-CAAAGCTCCCTTGGCCGTGATGGGAAGCTCCTACG	8153
Query	8176	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGAAGTCCAAGA	8235
Sbjct	8154	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGAAGTCCAAGA	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214	AAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTGTACTCCACAGTCACTGAGAGCG	8273
Query	8296	ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGGTGG	8355
Sbjct	8274	ACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGACCTCGACCCCCAAGCCCGGTGG	8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGG	8415
Sbjct	8334	CCATCAAGTCCCTCACCAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGG	8393
Query	8416	AAAACCTGCGGCTACCGCAGGTGCCGCGCAGCGCGTACTGACAACTAGCTGTGGTAA	8475
Sbjct	8394	AGAACCTGCGGCTATCGCAGGTGCCGCGCAGCGCGTACTGACAACTAGCTGTGGTAA	8453
Query	8476	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGCGAGCCGAGGGCTCCAGGACTGCA	8535
Sbjct	8454	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGCGAGCCGAGGGCTCCAGGACTGCA	8513
Query	8536	CCATGCTCGTGTGCGCAGGACTTAGTCGTTATCTGTGAAAGTGCAGGGGTCAGGAGG	8595
Sbjct	8514	CCATGCTCGTGTGCGCAGGACTTAGTCGTTATCTGTGAAAGTGCAGGGGTCAGGAGG	8573
Query	8596	ACGCGGCGAGGCTGAGAGCCTTACGCGAGGCTATGACCAAGTACTCCGccccccgggg	8655
Sbjct	8574	ACGCGGCGAGGCTGAGAGCCTTACGCGAGGCTATGACCAAGTACTCCGCCCCCTGGGG	8633
Query	8656	cccccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCAAGTGTGAG	8715
Sbjct	8634	ACCCCCACAACCAGAATACGACTTGGAGCTATAAATCATGCTCCTCCAAGTGTGAG	8693
Query	8716	TCGCCACGACGCGCGTGGAAAGAGGGTCTACTACCTTACCCTGACCTACAACCCCC	8775
Sbjct	8694	TCGCCACGACGCGCGTGGAAAGAGGGTCTACTACCTTACCCTGACCTACAACCCCC	8753
Query	8776	TCGCCAGAGCCGCTGGGAGACGAGAAGACACTTCAAGTCAATTCCTGGCTAGGCAACA	8835

Sbjct 8754 TCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTTGGCTAGGCAACA 8813

Query 8836 TAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCITTAGCG 8895

Sbjct 8814 TAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCITTAGCG 8873

Query 8896 TCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTACGGAGCCTGCT 8955

Sbjct 8874 TCCTTATAGCCAGGGACAGCTTGAACAGGCTCTGATTGCGAGATCTACGGGCGCTGCT 8933

Query 8956 ACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCTCAGCGCAT 9015

Sbjct 8934 ACTCCATAGAACCACTTGATCTACCTCCAATCATTCAAAGACTCCATGGCTCAGCGCAT 8993

Query 9016 TTTCACCTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAAC 9075

Sbjct 8994 TTTCACCTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCCGCATGCCTCAGAAAAC 9053

Query 9076 TTGGGGTCCC GCCCTTGGCAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTC 9135

Sbjct 9054 TTGGGGTACC GCCCTTGGCAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTC 9113

Query 9136 TGTCAGAGGAGGAGGCGGCTGCCATAATGTGGCAAGTACCTCTTCAACTGGGCGAGTAAGAA 9195

Sbjct 9114 TGCCAGAGGAGGAGGCGGCTGCCATAATGTGGCAAGTACCTCTTCAACTGGGCGAGTAAGAA 9173

Query 9196 CAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCGGTTGGTTCA 9255

Sbjct 9174 CAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCAGCTGGACTTGTCCGGCTGGTTCA 9233

Query 9256 CGGCTGGCTACAGCGGGGGAGACATTTATACAGCGTGTCTCATGCCCGGCCCGCTGGT 9315

Sbjct 9234 CGGCTGGCTACAGCGGGGGAGACATTTATACAGCGTGTCTCATGCCCGGCCCGCTGGA 9293

Query 9316 TCTGGTTTTCGCTACTCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCAACCGAT 9375

Sbjct 9294 TCTGGTTTTCGCTACTCTGCTGCTGCAGGGGTAGGCATCTACCTCCTCCCAACCGAT 9353

Query 9376 GAAGGTTGGGGTAAACACTCCGGCCT 9401

Sbjct 9354 GAAGGTTGGGGTAAACACTCCGGCCT 9379

>dbj|DJ491512.1| HEPATITIS C VIRUS (HCV) POLYPEPTIDES
Length=9379

Score = 1.516e+04 bits (8209), Expect = 0.0
Identities = 8996/9386 (95%), Gaps = 14/9386 (0%)
Strand=Plus/Plus

Query 23 CACTCCACCATGAATCACTCCCTGTGAGGAAGTACTGTCTTACGCGAGAAAGCGTCTAG 82

Sbjct 1 CACTCCACCATGAATCACTCCCTGTGAGGAAGTACTGTCTTACGCGAGAAAGCGTCTAG 60

Query 83 CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAACCCCGCTCCCGGGAGAGCCATA 142

Sbjct 61 CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGACCCCGCTCCCGGGAGAGCCATA 120

Query 143 GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCTTTCTTGA 202

Sbjct 121 GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCTTTCTTGA 180

Query 203 TAAACCCGCTCAATGCTGGAGATTGGGCGTGCCCCCGCAAGACTGTAGCCGAGTAGT 262

Sbjct 181 TCAACCCGCTCAATGCTGGAGATTGGGCGTGCCCCCGCAAGACTGTAGCCGAGTAGT 240

Query 263 GTTGGGTGCGGAAAGGCTTGTGGTACTGCCTGATAGGGTGCTTGCAGTGTCCCGGGAG 322

Sbjct 241 GTTGGGTGCGGAAAGGCTTGTGGTACTGCCTGATAGGGTGCTTGCAGTGTCCCGGGAG 300

Query 323 GTCTCGTAGACCGTGCACCATGAGCAGCAATCCTAAACCTCAAAGAAAAACCAACGTAA 382

Sbjct 301 GTCTCGTAGACCGTGCACCATGAGCAGCAATCCTAAACCTCAAAGAAAAACCAACGTAA 360

Query 383 CACCACCGTCGCCACAGGACGTCAAGTCCCGGGTGGCGGTGAGTGTGGTGGAGT 442

Sbjct	361	CACCAACCGTCGCCACAGGACGTCAAGTTCCTCCGGGTGGCGGTGAGATCGTTGGTGGAGT	420
Query	443	TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502
Sbjct	421	TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	480
Query	503	GCGGTTCGCAACCTCGAGGTAGACGTACGCTATCCCCAAGGCACGTGGGCCGAGGGCGAG	562
Sbjct	481	GCGGTTCGCAACCTCGAGGTAGACGTACGCTATCCCCAAGGCCTGTGGGCCGAGGGCGAG	540
Query	563	GACCTGGGCTCAGCCCGGTACCCTTGGCCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541	GACCTGGGCTCAGCCCGGTACCCTTGGCCCCCTCTATGGCAATGAGGGCTGCGGGTGGGC	600
Query	623	GGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGCTGGGGCCCCACAGACCCCGGCG	682
Sbjct	601	GGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGCTGGGGCCCCACAGACCCCGGCG	660
Query	683	TAGGTTCGCGCAATTGGGTAAGGTATCATACCCCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661	TAGGTTCGCGCAATTGGGTAAGGTATCATACCCCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCGCTCGTCGGCGGCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721	GGGGTACATACCGCTCGTCGGCGGCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGG	780
Query	803	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACTTCTCGTTGCTCTTT	862
Sbjct	781	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACTTCTCGTTGCTCTTT	840
Query	863	CTCTATCTTCCTTCGGCCCTGCTCTCTTGCTGACTGTGCCCGCTTCAGCTACCAAGT	922
Sbjct	841	CTCTATCTTCCTTCGGCCCTGCTCTCTTGCTGACTGTGCCCGCTTCAGCTACCAAGT	900
Query	923	GCGCAATTCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAATTCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCGCATGCCATCCTGCACACTCCGGGGTGTGTCCCTTCGTTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCGGCGCATGCCATCCTGCACACTCCGGGGTGTGTCCCTTCGTTTCGCGAGGGTAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGCGAACTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGATGGCAACTCCC	1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTTCGGGAGCGCCACCTCTGCTCGGC	1162
Sbjct	1081	CAGCAGCGAGCTTCGACGTCACATCGATCTGCTTGTTCGGGAGCGCCACCTCTGCTCGGC	1140
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTCTTGTGTTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGGGACCTATGCGGGTCTGTCTTCTTGTGTTGGTCAACTGTTTACCTTCTC	1200
Query	1223	TCCCAGGCGCCATGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGGCCATATAAC	1282
Sbjct	1201	TCCCAGGCGCCATGGACGACGCAAGGTTGCAATTGCTCTATCTATCCCGGCCATATAAC	1260
Query	1283	GGGTTCATCGCATGGCATGGGATATGATGATGAACCTGTCCTTACGGCAGCGTTGGTGGT	1342
Sbjct	1261	GGGTTCATCGCATGGCATGGGATATGATGATGAACCTGTCCTTACGGCAGCGTTGGTGGT	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACATGATCGCTGGTGTCTACTGGGG	1402
Sbjct	1321	AGCTCAGCTGCTCCGGATCCCAAGCCATCTTGGACATGATCGCTGGTGTCTACTGGGG	1380
Query	1403	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACCTGGGCGAAGGTCTTGGTAGT	1462
Sbjct	1381	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACCTGGGCGAAGGTCTTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCGCGCGTCGACGCGGAAACCCACGTCACCGGGGGAATGCCGGCGC	1522
Sbjct	1441	GCTGCTGCTATTTGCGCGCGTCGACGCGGAAACCCACGTCACCGGGGGAATGCCGGCCA	1500
Query	1523	CACCACGCTGGGCTTGTGGTCTCCTTACACAGGCGCCAAAGCAGAACATCAACTGAT	1582

Sbjct	1501	CAC TGTGCTGGATTGTGTAGCCTCCTCGCACGAGCGCCAAAGCAGAACGTCACGCTGAT	1560
Query	1583	CAACACCAACGGCAGTTGGACATCAATAGCAGGGCCTGAATTGCAATGAAAGCCITAA	1642
Sbjct	1561	CACACCAACGGCAGTTGGCACTCAATAGCAGGGCCTGAAGTGAATGATAGCCTCAA	1620
Query	1643	CACCGCTGGTTAGCAGGGCTTCTTATCAACACAAATCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	1621	CACCGCTGGTTGGCAGGGCTTTCTTATCACCACAAGTTCACCTCTTCAGGCTGTCCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCCTTACCGATTTTGCCAGGGCTGGGGTCTTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACGCCCTTACCGATTTTGACAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCCCTCGACGAACGCCCTACTGCTGGCACTACCCCTCAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGCCCGGACGACGCCCTACTGCTGGCACTACCCCCAAAAACCTTG	1800
Query	1823	TGGCATTGTCGCCGCAAGAGCGTGTGTGCCCGGTATATTGCTTCACCTCCAGCCCCGT	1882
Sbjct	1801	CGTGATTGTGCCCGGCAAGAGTGTGTGTGCTCGGTATATTGCTTCACCTCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACGACAGAGTGTGGCGCGCCCTACTACAGTGGGGTGCAAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACGACAGTGTGGCGCGCCCACTACAGTGGGGTGAAAATGATAC	1920
Query	1943	GGATGTCTTCGCTCTTAACAACACGAGCGACCGCTGGGCAATTGGTTGCGTTGTACCTG	2002
Sbjct	1921	GGACGCTTCGCTCTTAACAATACGAGCGACCGCTGGGCAATTGGTTGCGTTGTACCTG	1980
Query	2003	GATGAAGTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTGATCGGAGGGGT	2062
Sbjct	1981	GATGAAGTCAACTGGATTACCAAAGTGTGCGGAGCGCCCTCTTGTGTGATCGGAGGGG	2040
Query	2063	GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCGCAAACTCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACAACACCTTGCACTGCCCCACTGATTGCTTCGCAAGCATCCGGAGCGCCACATA	2100
Query	2123	CTCTCGGTGGCGCTCCGGTCCCTGGATTACACCCAGGTGTCATGGTCGACTACCCGATATAG	2182
Sbjct	2101	CTCTCGGTGGCGCTCCGGTCCCTGGATACACCCAGGTGCCCTGGTCGACTACCCGATATAG	2160
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCATATATCCTTGTACCATCAACTACACCATATTTAAATCAGGATGTACGTGGG	2220
Query	2243	AGGGGTCGAGCAGAGGCTGGAAGCGGCTGCAACTGGACGGGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTCGAACACAGGCTGGAAGCTGCCGCAACTGGACGGGGGCGAACGTTGCGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCGTTGCTGCTGCCACCACAGTGGCAGGT	2362
Sbjct	2281	GGAAGACAGGGACAGGTCCGAGCTCAGCCGTTACTGTGCACACTACACAGTGGCAGGT	2340
Query	2363	CCTTCGGTGTTCTTACAGCACTCCGACCGCTGTGCCAGGGCTCATCCACTCCACCA	2422
Sbjct	2341	CCTCCGCTGTTCCCTTACAAACCTACAGCCTGTGCCAGGGCTCATCCACTCCACCA	2400
Query	2423	GAACATTGTGACGTGACGATCTGTACGGGGTAGGGTCAAGCATCGCGTCTCTGGGCCAT	2482
Sbjct	2401	GAACATTGTGACGTGACGATCTGTACGGGGTGGGGTCAAGCATCGCGTCTCTGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTCGTTCTCTGTTCCCTTCTGCTTCGACAGCGCGCGTCTGCTCCTG	2542
Sbjct	2461	TAAGTGGGAGTACGTCGTTCTCTGTTCCCTTCTGCTTCGACAGCGCGCGTCTGCTCCTG	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGACGATCCCTGGCCGGGACGACGGTCTTGTGTCCTTCTCGTGTCTTCTGCTT	2662
Sbjct	2581	TAATGACGATCCCTGGCCGGGACGACGGTCTTGTATCCTTCTCGTGTCTTCTGCTT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGTGGGTGCCCGGAGCGGCTTACGCCCTTACGGGATGTG	2722

Sbjct	2641	TGCATGGTATTGAAGGGTAAGTGGGTGCCCGGAGCGGTCTACACCTTCTACGGGATGTG	2700
Query	2723	GCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGGCATACGCACTGGACACGAGGT	2782
Sbjct	2701	GCCTCTCCTCCTGCTCCTGTTGGCGTTGCCAGCGGGGCTACGCGCTGGACACGAGGT	2760
Query	2783	GGCCGCGTCGTGTGGCGCGTGTGTTCTGTGCGGTTAATGGCGCTGACTCTGTGCCATA	2842
Sbjct	2761	GGCCGCGTCGTGTGGCGCGTGTGTTCTGTGCGGTTGATGGCGCTGACTCTGTACCATA	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCTTGTGGTGGCTTCAGTATTTTCTGACCAGAGTGA	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTccccccTCAACGTCGgggggggCGCATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCCCCTCAACGTCGAGGGGGGCGCACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCTGGTATTGTACATCACCAAATCTCTCTGG	3021
Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTGTACATCACCAAATGCTGCTGG	2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGGCTTAAAGTCCCTACTTCTGTG	3081
Sbjct	3000	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGGCTTAAAGTACCCTACTTTGTG	3059
Query	3082	CGGTTCACAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGCTATTAC	3140
Sbjct	3060	GGGTCCACAGGCCCTTCTCCGGTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201	ACCCCTCTTCGAGACTGGGCGCACAAACGCGCTGCGAGATCTGGCGTGGCTGTGGAAACA	3260
Sbjct	3179	ACTCTCTTCGAGACTGGGCGCACAAACGCGCTGCGAGATCTGGCGTGGCTGTAGAGCA	3238
Query	3261	GTCGCTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGCGAGATACCGCCGCTGC	3320
Sbjct	3239	GTCGCTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGCGAGATACCGCCGCTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCGCTCTGCCCCGAGGGGCCAGGAGATAGCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCCTGTTTCCGCCGAGGGGCCGGGAGATAGCTCGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCATCACGGCGTAGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCATCACGGCGTAGCC	3418
Query	3441	CAGCAGACGAGAGGCCCTCCTAGGGTGATAATCACAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACGAGAGGCCCTCCTAGGGTGATAATCACAGCCTAATGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCTTGGCAACGTGC	3560
Sbjct	3479	CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCAAACCTTCTTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACACGGGGCCGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGAATGTCTACACGGGGCCGAACGAGGACCATCGGCTCACCC	3598
Query	3621	AAGGGTCTGTGATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCGCT	3680
Sbjct	3599	AAGGGTCTGTGATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	CCGCAAGTAGCGCTCATTGACACCTGCACCTGCGGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTCAATCCCGTGCGCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTCAATCCCGTGCGCGGCGGGGTGATAGCAGGGGTAGCCTGCTT	3778
Query	3801	TCGCCCGGGCCATTTCTACTTGAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCGCG	3860

Sbjct	3779	TCGCCCCGGCCCATTTCTACTTGAAGGCTCCTCGGGGGTCCCGTGTGTGCCCCGCG	3838
Query	3861	GGACACGCGCGTGGGCGTATTAGGGCCGCGGTGTGCACCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGCACGCGCGTGGGCGTATTAGGGCCGCGGTGTGCACCGTGGAGTGGCTAAAGCGGTG	3898
Query	3921	GACTTTATCCCTGTGAGAACTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGAGAACTAGAGACAACCATGAGGTCCCCGGTGTTCACGGATAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGTCCCGCAGAGCTTCCAGGTGGCCACCTGCATGTCTCCACCGCG	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGTCCCGCAGAGCTTCCAGGTGGCTCACTCCATGTCTCCACAGGC	4018
Query	4041	AGCGGTAAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTACAAGGTGTGGTG	4100
Sbjct	4019	AGCGCAAAAGACACCAAGGTCCCGGCTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTGTGTGCAACGCTGGGCTTTGGTGTTCATATGTCCAAGGCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTGTGTGCAACACTGGGCTTTGGTGTTCATATGTCCAAGGCTCATGGG	4138
Query	4161	GTGTATCTTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCAGGTAC	4220
Sbjct	4139	ATCGATCTTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCAGGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCTTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACCTACGGCAAGTTCTTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4258
Query	4281	ATTTGTGACAGTGGCCACTCCACGGATGCCACATCCATCTTTGGGCATCGGCACTGTCCCT	4340
Sbjct	4259	ATTTGTGACAGTGGCCACTCCACGGATGCCACATCCATCTTTGGGCATCGGCACTGTCCCT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGTACCCCTCCGGGC	4378
Query	4401	TCCGTCACCTGTGTCCCATCCTAACATCGAGGAGTTGCTCTGTCCACCACCGGAGAGATC	4460
Sbjct	4379	TCCGTCACCTGTGTCCCATCCTAACATCGAGGAGTTGCTCTGTCCACCACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAAGACATCTCATCTTC	4498
Query	4521	TGCGACTCAAAGAAGAAGTGCAGCAGCTCGCCGCGAAGCTGGTTCGATTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAAGAAGAAGTGCAGCAACTCGCCGCGAAGCTGGTTCGATTGGGCATCAAT	4558
Query	4581	GCGGTGGCTACTACGCGGCTCTTGACGTGTCTGTCAATCCGACACAGCGGCGATGTTGTG	4640
Sbjct	4559	GCGGTGGCTACTACGCGGCTCTTGACGTGTCCGTCATCCGACACAGCGGCGATGTTGTG	4618
Query	4641	GTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4619	GTCGTGGCAACCGATGCCCTCATGACCGCTATACCGGCGACTTCGACTCGGTGATAGAC	4678
Query	4701	TGCAACACGTTGTGCTACTCAGACAGTCGATTTTCAGCCTTGACCTACCTTTACCAATTGAG	4760
Sbjct	4679	TGCAATACGTTGTGCTACCAGACAGTCGATTTTCAGCCTTGACCTACCTTTACCAATTGAG	4738
Query	4761	ACAACCACTCCCGCCAGGATGCTGTCTCCAGGATCAACGCGGGGAGGACTTGGCAGG	4820
Sbjct	4739	ACAATCAGCTCCCGCCAGGATGCTGTCTCCGCACTCAACGTCGGGAGGACTTGGCAGG	4798
Query	4821	GGGAAGCCAGGCACTATATAGATTTTGGGACCGGGGGAGCGCCCTCCGGCATGTTTCGAC	4880
Sbjct	4799	GGGAAGCCAGGCACTATACAGATTTTGGGACCGGGGGAGCGCCCTCCGGCATGTTTCGAC	4858
Query	4881	TCGTCGCTCTCTGTGAGTGTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4940
Sbjct	4859	TCGTCGCTCTCTGTGAGTGTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTCCCGTGTGCCAGGAC	5000

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Sbjct  4919 GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCGCCGTGTCAGGAC 4978
Query   5001 CATCTTGAATTTTGGGAGGGCGTCTTTACGGCCCTCACTCATATAGATGCCCACTTTT 5060
Sbjct  4979 CATCTTGAATTTTGGGAGGGCGTCTTTACAGCCCTCACTCATATAGATGCCCACTTTCTA 5038
Query   5061 TCCAGACAAAGCAGAGTGGGGAGAAGCTTCCTTACCTGCTAGCGTACCAAGCCACCGTG 5120
Sbjct  5039 TCCAGACAAAGCAGAGTGGGGAGAAGCTTCCTTACCTGCTAGCGTACCAAGCCACCGTG 5098
Query   5121 TCGCGTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTGTTGATCCGC 5180
Sbjct  5099 TCGCGTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTGTTGATTCGC 5158
Query   5181 CTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTGAGAAT 5240
Sbjct  5159 CTCAGGCCACCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTGAGAAT 5218
Query   5241 GAAGTCACCTTGACGCACCCAAATACCAAATACATCATGACATGCATGTCGGCGACCTG 5300
Sbjct  5219 GAAATCACCTTGACGCACCCAGTCACCAAATACATCATGACATGCATGTCGGCGACCTG 5278
Query   5301 GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTTGGCTGCTCTGGCCGCGTAT 5360
Sbjct  5279 GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTTGGCTGCTTTGGCCGCGTAT 5338
Query   5361 TGCCGTGCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGCTTGTCCGGGAAGCCGGCA 5420
Sbjct  5339 TGCCGTGCAACAGGCTGCGTGGTCATAGTGGGCAGGTCGCTTGTTCGGGAAGCCGGCA 5398
Query   5421 ATTATACCTGACAGGGAGGTTCCTACCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA 5479
Sbjct  5399 ATCATACCTGACAGGGAAGTCTCTACCGAG-AGTTCGATGAGATGGAAGAGTGCTCTCA 5457
Query   5480 GCACTTACCGTCATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT 5539
Sbjct  5458 GCACTTACCGTCATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCT 5517
Query   5540 CGGCCCTCTGACAGCCGCTCCCGCCATGCAGAGGTTATACCCCTGCTGTCCAGACCAA 5599
Sbjct  5518 CGGCCCTCTGACAGCCGCTCCCGTCAGGCAGAGGTTATCGCCCTGCTGTCCAGACCAA 5577
Query   5600 CTGGCAGAAACTCGAGGCTCTTTGGGCGAAGCACATGTGGAATTTCATCAGTGGGATACA 5659
Sbjct  5578 CTGGCAAAACTCGAGACCTTCTGGGCGAAGCATATGTGGAATTCATCAGTGGGATACA 5637
Query   5660 ATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCATTGCTTCATTGATGGCTTT 5719
Sbjct  5638 ATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCATTGCTTCATTGATGGCTTT 5697
Query   5720 TACAGCTGCGGTGACAGCCCACTAACCACTGGCCAAACCCCTCCTCTTCAACATATTGGG 5779
Sbjct  5698 TACAGCTGCTGTGACAGCCCACTAACCACTAGCCAAACCCCTCCTCTTCAACATATTGGG 5757
Query   5780 GGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCGGCTACTGCTTTTGGGTGCTGG 5839
Sbjct  5758 GGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCGGCTACTGCTTTTGGGTGCTGG 5817
Query   5840 CCTAGCTGGCGCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGIGGACATTCCTG 5899
Sbjct  5818 CTTAGCTGGCGCGCCATCGGCAGTGTGGACTGGGGAAGGTCCTATAGACATCTCTG 5877
Query   5900 AGGGTATGGCGCGGGCGTGGCGGGAGCTCTGTAGCATTCAGATCATGAGCGGTGAGGT 5959
Sbjct  5878 AGGGTATGGCGCGGGCGTGGCGGGAGCTCTGTGGCATTCAGATCATGAGCGGTGAGGT 5937
Query   5960 CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCTGGAGCCCTTGT 6019
Sbjct  5938 CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTG 5997
Query   6020 AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGTTGGCCCGGGCGAGGGGGCAGT 6079
Sbjct  5998 AGTCGGGTGGTCTGTGACGAATACTGCGCCGGCAGTTGGCCCGGGCGAGGGGGCAGT 6057
Query   6080 GCAATGGATGAACCGGCTAATAGCTTCGCCTCCCGGGGGAACCATGTTTCCCCACGCA 6139

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Sbjct 6058 GCAGTGGATGAACCGGCTGATAGCCTTCGCCCTCCCGGGGAACCATGTTTCCCCACGCA 6117
Query 6140 CTACGTGCGCGGAGAGCGATGAGCGCGCCGCGTCACTGCCATACTCAGCAGCCTCACTGT 6199
Sbjct 6118 CTACGTGCGCGGAGAGCGATGAGCTGCGCGTCACTGCCATACTCAGCAGCCTCACTGT 6177
Query 6200 AACCCAGCTCCTCAGGCGACTGCATCAGTGGATAAGCTCGGAGTGACCACCTCCATGCTC 6259
Sbjct 6178 AACCCAGCTCCTCAGGCGACTGCACCACTGGATAAGCTCGGAGTGACCACCTCCATGCTC 6237
Query 6260 CGGTTCTCGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC 6319
Sbjct 6238 CGGTTCTCGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC 6297
Query 6320 CTGGCTGAAAGCCAAGCTCATGCCACAACCTGCTGGGATTCCTTTGTGTCCTGCCAGCG 6379
Sbjct 6298 CTGGCTAAAAGCTAAAGCTCATGCCACAGCTGCTGGGATTCCTTTGTGTCCTGCCAGCG 6357
Query 6380 CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG 6438
Sbjct 6358 CGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG 6416
Query 6439 CTGAGATCACTGGACATGTCAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCA 6498
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Query 6499 GGAACATGTGGAGTGGGACGTTCCCATTAACGCCTACACCACGGGCCCTGTACTCCCC 6558
Sbjct 6477 GGAACATGTGGAGTGGGACCTTCCCATTAATGCCCTACACCACGGGCCCTGTACTCCCC 6536
Query 6559 TTCTTGCGCCGAACATAAGTTTCGCGCTGTGGAGGTGTCTGCAGAGGAATACGTGGAGA 6618
Sbjct 6537 TTCTTGCGCCGAACATACAGTTTCGCGCTATGAGGGTGTCTGCAGAGGAATATGTGGAGA 6596
Query 6619 TAAGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC 6677
Sbjct 6597 TAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC 6655
Query 6678 CCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGTGCGCCTACACAGG 6737
Sbjct 6656 CCGTGCCAGGTCCCATCGCCCGAATTTTTCACAGAATTGGACGGGTGCGCCTACATAGG 6715
Query 6738 TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC 6797
Sbjct 6716 TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC 6775
Query 6798 GAGTACCCGGTGGGGTCGCAATTACCTTGCAGGCCGCAACCGGACGTAGCCGTTGTGAGC 6857
Sbjct 6776 GAATACCCGGTAGGGTCGCAATTACCTTGCAGGCCGCAACCGGACGTAGCCGTTGTGAGC 6835
Query 6858 TCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCGCGGAGAGGTTGGCGAGA 6917
Sbjct 6836 TCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCGCGGCGAGGTTGGCGAG- 6894
Query 6918 GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA 6976
Sbjct 6895 GGGATCACCCCTTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCGCTCCATCTCTCAA 6954
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Sbjct 6955 GGCAACTTGCACCGCTAACCATGACTCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT 7014
Query 7037 GTGGAGGCGAGGAGATGGGCGGCAACATCACCAAGGTTGAGTCAGAGAACAAAGTGGTGAT 7096
Sbjct 7015 ATGGAGGCGAGGAGATGGGCGGCAACATCACCAAGGTTGAGTCAGAAAAACAAGTGGTGAT 7074
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Query 7217 CTACAACCCCCCTAGTAGAGAGCTGGAAAAAGCCTGACTACGAACCACTGTGTGCCA 7276
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Sbjct	7195	CTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCGACTACGAACACCTGTGGTCCA	7254
Query	7277	TGGGTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCCTCGCGCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TGGCTGTCCGCTTCCACCTCCAAGTCCCTCCTGTGCCCTCGCGCTCGGAAGAAGCGGAC	7314
Query	7337	GGTGTCTCTACCGAATCAACCCTATCTACTGCCTTGGCGAGCTTGCACACAAAAGTTT	7396
Sbjct	7315	GGTGTCTCTCACTGAATCAACCCTATCTACTGCCTTGGCGAGCTTCGCCACAGAAAGCTT	7374
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	7375	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7434
Query	7457	CCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCTATTCTTCCATGCCCCCGTGA	7516
Sbjct	7435	CCCTTCTGGCTGCCCCCGGACTCCGACGCTGAGTCTATTCTTCCATGCCCCCGTGA	7494
Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAATGGTCAGCGGTGAGTAGTGGGGC	7576
Sbjct	7495	GGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCAATGGTCAGCGGTGAGTAGTGGGGC	7554
Query	7577	CGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATCTCTGGACAGGCGCACTCGTCA	7636
Sbjct	7555	CAACCGGAGGATGTCGTGTGCTGCTCAATGTCTTATCTCTGGACAGGCGCACTCGTCA	7614
Query	7637	CCCGTGCCTGCGGAAGAACAACAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACG	7696
Sbjct	7615	CCCGTGCCTGCGGAAGAACAACAACTGCCCATCAATGCACTAAGCAACTCGTTGCTACG	7674
Query	7697	CCATCAAACTCTGGTGATTTCACCACTTCACGACGTGCTTGCCAAAGGCAGAGAAGAT	7756
Sbjct	7675	TCACCACAAATTTGGTGATTTCACCACTTCACGACGTGCTTGCCAAAGGCAGAGAAGAT	7734
Query	7757	CACATTGACAGACTGCAAGTTCTGGACAGCAATTACGAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735	CACATTGACAGACTGCAAGTTCTGGACAGCAATTACGAGGACGTACTCAAGGAGGTAA	7794
Query	7817	AGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACGCTGAC	7876
Sbjct	7795	AGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACGCTGAC	7854
Query	7877	GCCCCACATTACGCAAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCTTGCCATGC	7936
Sbjct	7855	GCCCCACACTACGCAAAATCCAAGTTTGGTTATGGGGCAAAAGACGTCCTTGCCATGC	7914
Query	7937	CAGAAAGGCGGTAGCCACATCAACTCCGTGTGGAAGACCTTCTGGAAGACAGTGTAA	7996
Sbjct	7915	CAGAAAGGCGGTAAACCATCAACTCCGTGTGGAAGACCTTCTGGAAGACATGTAA	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAAGACGAGGTTTCTCGCTTACGCTGAGAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTCTCGCTTACGCTGAGAGGG	8034
Query	8057	GGTGTGTAAGCCAGCTCGTCTCATCGTGTTCCTCCCGACTGGGCGTGCGGTGTCGAGAA	8116
Sbjct	8035	GGTGTGTAAGCCAGCTCGTCTCATCGTGTTCCTCCCGACTGGGCGTGCGGTGTCGAGAAA	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGATGATGGGAAGCTCTACG	8175
Sbjct	8095	GATGCTTTGTACGACGTGGTTA-CAAAGCTCCCCCTGGCCGATGATGGGAAGCTCTACG	8153
Query	8176	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTCGAAGCGTGGGAAGTCCAAGA	8235
Sbjct	8154	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTCGAAGCGTGGGAAGTCCAAGA	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214	AAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCG	8273
Query	8296	ACATCCGTACGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGGTGG	8355
Sbjct	8274	ACATCCGTACGAGGAGGCAATCTACCAATGTTGTGACCTGCACCCCCAAGCCCGGTGG	8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8415


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Sbjct  8334  CCATCAAGTCCCTCACCGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG  8393
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Sbjct  8394  AGAACTGCGGCTATCGCAGGTGCCGCGCAGCGGCGTACTGACAACCTAGCTGTGGTAACA  8453
Query   8476  CCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTCGAGCGCAGGGCTCCAGGACTGCA  8535
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Sbjct  8454  CCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTCGAGCGCAGGGCTCCAGGACTGCA  8513
Query   8536  CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTCGGGGGTCAGGAGG  8595
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Sbjct  8514  CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGCGGGGGTCAGGAGG  8573
Query   8596  ACGGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGcccccccgggg  8655
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Sbjct  8574  ACGGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCTGGGG  8633
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Sbjct  8634  ACCCCCCACAACCAGAAATACGACTTGGAGCTCATAAATCATGCTCCTCCAACGTGTAG  8693
Query   8716  TCGCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCTACAACCCCC  8775
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Sbjct  8694  TCGCCACGACGCGCTGGAAAGAGGGTCTACTACCTACCCGTGACCTACAACCCCC  8753
Query   8776  TCGCGAGAGCCGCGTGGGAGACAGACACACTCCAGTCAATTCTCTGGCTAGGCAACA  8835
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Sbjct  8754  TCGCGAGAGCTGGTGGGAGACAGACACACTCCAGTCAATTCTCTGGCTAGGCAACA  8813
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Sbjct  8814  TAATCATGTTTGCCCCCAGCTGTGGGCGAGGATGATACCTGATGACCACTTCTTTAGCG  8873
Query   8896  TCCTCATAGCCAGGGATCAGCTTGAAACAGGCTCTTAAGTGTGAGATCTACGAGCCGTGT  8955
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Query   8956  ACTCCATAGAACCAGTGGATCTACCTCCAATCATTCAAAGACTCCATGGCTCAGCGCAT  9015
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Query   9016  TTTCACCTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGATGCCTCAGAAAAC  9075
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Query   9076  TTGGGGTCCC GCCCTTGGCAGCTTGGAGACACCGGGGCCGGAGCGTCCGCGCTAGGCTTC  9135
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Query   9136  TGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCGAGTAAGAA  9195
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Sbjct  9114  TGGCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCGAGTAAGAA  9173
Query   9196  CAAAGCTCAAACCTACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCGGTTGGTTCA  9255
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Sbjct  9174  CAAAGCTCAAACCTACTCCAATAGCGGCCGCTGGCCAGCTGGACTTGTCCGGCTGGTTCA  9233
Query   9256  CGGCTGGCTACAGCGGGGAGACATTTATACAGCGTGTCTCATGCCCGGCCCGCTGGT  9315
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Sbjct  9234  CGGCTGGCTACAGCGGGGAGACATTTATACAGCGTGTCTCATGCCCGGCCCGCTGGTA  9293
Query   9316  TCTGGTTTGTGCTACTCTCTGCTGCTGCAGGGGTAGGCATCTACCTCTCCCCAACCGAT  9375
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Sbjct  9294  TCTGGTTTGTGCTACTCTCTGCTGCTGCAGGGGTAGGCATCTACCTCTCCCCAACCGAT  9353
Query   9376  GAAGGTTGGGGTAAACACTCCGGCCT  9401
      |||
Sbjct  9354  GAAGGTTGGGGTAAACACTCCGGCCT  9379

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>dbj|D047428.1| HEPATITIS C VIRUS (HCV) POLYPEPTIDES
Length=9379

Score = 1.516e+04 bits (8209), Expect = 0.0
Identities = 8996/9386 (95%), Gaps = 14/9386 (0%)

Strand=Plus/Plus

Query	23	CACCTCCACCATGAATCACTCCCCCTGTGAGGAAGTACTGTCTTACACGAGAAAGCGCTAG	82
Sbjct	1	CACCTCCACCATGAATCACTCCCCCTGTGAGGAAGTACTGTCTTACACGAGAAAGCGCTAG	60
Query	83	CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAACCCCGCTCCGGGAGAGCCATA	142
Sbjct	61	CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGACCCCGCTCCGGGAGAGCCATA	120
Query	143	GTGGTCTGCGGAACCGGTGAGTACACCGAATTGCCAGGACGACCGGGTCTTTCTTGGA	202
Sbjct	121	GTGGTCTGCGGAACCGGTGAGTACACCGAATTGCCAGGACGACCGGGTCTTTCTTGGA	180
Query	203	TAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCCGAAGACTGCTAGCCGAGTAGT	262
Sbjct	181	TCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCCGAAGACTGCTAGCCGAGTAGT	240
Query	263	GTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGGGTGCTTGCAGTGTCCCGGGAG	322
Sbjct	241	GTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGGGTGCTTGCAGTGTCCCGGGAG	300
Query	323	GTCTCGTAGACCGTGCACCATGAGCAGCAATCCTAAACCTCAAAAGAAAACAAACGTAA	382
Sbjct	301	GTCTCGTAGACCGTGCACCATGAGCAGCAATCCTAAACCTCAAAAGAAAACAAACGTAA	360
Query	383	CACCAACCGTCGCCACAGGACGTCAGTTCCCGGGTGGCGGTGAGTGTGGTGGAGT	442
Sbjct	361	CACCAACCGTCGCCACAGGACGTCAGTTCCCGGGTGGCGGTGAGTGTGGTGGAGT	420
Query	443	TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCAGCAGGAAAGACTTCCGA	502
Sbjct	421	TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCAGCAGGAAAGACTTCCGA	480
Query	503	GCGGTGCGAACCTCGAGGTAGACGTACGCTATCCCCAAGGCACGTGCGGCCGAGGGCAG	562
Sbjct	481	GCGGTGCGAACCTCGAGGTAGACGTACGCTATCCCCAAGGCACGTGCGGCCGAGGGCAG	540
Query	563	GACCTGGGCTCAGCCCGGTACCCCTTGGCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541	GACCTGGGCTCAGCCCGGTACCCCTTGGCCCTCTATGGCAATGAGGGCTGCGGGTGGGC	600
Query	623	GGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCGGGC	682
Sbjct	601	GGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCGGGC	660
Query	683	TAGGTGCGCAATTGGGTAAGGTATCATACCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661	TAGGTGCGCAATTGGGTAAGGTATCATACCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCGCTCGTCCGCGCCCTCTTGGAGGCGCTGCCAGGGCCCTGCGCATAGG	802
Sbjct	721	GGGGTACATACCGCTCGTCCGCGCCCTCTTGGAGGCGCTGCCAGGGCCCTGCGCATAGG	780
Query	803	CGTCCGGGTTCGGAAGACGGCGTGAACATATGAACAGGGAACTTCCTGGTTGCTCTTT	862
Sbjct	781	CGTCCGGGTTCGGAAGACGGCGTGAACATATGAACAGGGAACTTCCTGGTTGCTCTTT	840
Query	863	CTCTATCTTCTTCTGGCCCTGCTCTTGGCTGACTGTGCCGCTTCAGCTACCAAGT	922
Sbjct	841	CTCTATCTTCTTCTGGCCCTGCTCTTGGCTGACTGTGCCGCTTCAGCTACCAAGT	900
Query	923	GCGCAATTCTCGGGGCTTTACCATGTCACCAATGATTCGCTTAAGTCGAGTATTGTGTA	982
Sbjct	901	GCGCAATTCACGGGGCTTTACCATGTCACCAATGATTCGCTTAAGTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCGGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCCTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCGGCGGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCCTTCGCGAGGGTAA	1020
Query	1043	CGCCTCAGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAACTCCC	1102
Sbjct	1021	CGCCTCAGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGATGGCAACTCCC	1080
Query	1103	CACAACGCGAGCTTCGACGTATATCGATCTGCTTGTGCGGAGCGCCACCTCTGCTCGGC	1162

Sbjct	1081	CGCGACGCGAGCTTCGACGTCACATCGATCTGCTTTGTCGGGAGCGCCACCCCTCTGTCGGC	1140
Query	1163	CCTCTACGTGGGGGAGCTGTGCGGGTCTGCTTTCTTGTGTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGGGAGCTATGCGGGTCTGCTTTCTTGTGTGGGCAACTGTTTACCTTCTC	1200
Query	1223	TCCCAGGCGCCATCGACGACGCAAGACTGCAATTGTTCTATCTATCCCGGCATATAAC	1282
Sbjct	1201	TCCCAGGCGCCATCGACGACGCAAGGTTGCAATTGCTCTATCTATCCCGGCATATAAC	1260
Query	1283	GGGTGATCGCATGGCATGGGATATGATGATGAACCTGGTCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261	GGGTGATCGCATGGCATGGGATATGATGATGAACCTGGTCCCTACGGCAGCGTTGGTAAAT	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGTGGTGTCTACTGGGG	1402
Sbjct	1321	GCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACATGATCGTGGTGTCTACTGGGG	1380
Query	1403	AGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCTCTGGTAGT	1462
Sbjct	1381	AGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCTCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCGCGGCTCGACGCGGAAACCCACGTACCGGGGGAAATGCCGGCGC	1522
Sbjct	1441	GCTGCTGCTATTTGCGCGGCTCGACGCGGAAACCCACGTACCGGGGGAAATGCCGGCCA	1500
Query	1523	CACCACGGCTGGGCTTGTGTGCTCTCTTACACCAGGCGCCAAAGCAGAACATCCAACGTAT	1582
Sbjct	1501	CACCTGTGCTGGATTGTTAGCTCTCTCGCACCAGGCGCCAAAGCAGAACATCCAACGTAT	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCTTGAATGCAATGATAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATCAACTCTTCAGGCTGTCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAAGTCAACTCTTCAGGCTGTCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCITACCGATTTTGCCACGGGCTGGGGTCTCTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCCCTCGACGAACGCCCTACTGCTGGCACTACCCCTCAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGCCCTCGACGAGCGGCCCTACTGCTGGCACTACCCCTCAAGACCTTG	1800
Query	1823	TGGCATTTGTGCCCGCAAGAGCGTGTGTGGCCGGTATATTGCTTCACTCCAGCCCCGT	1882
Sbjct	1801	CGGTATTGTGCCCGCAAGAGTGTGTGTGGTCCGGTATATTGCTTCACTCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACGACGAGGTGCGGCGCGCCTACCTACAGCTGGGGTGCAAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACGACGAGGTGCGGCGCGCCACCTACAGCTGGGGTGAAAAATGATAC	1920
Query	1943	GGATGCTCTCGTCTTAAACAACACAGGCCACCGTGGGCAATTGGTTCCGGTTGTACCTG	2002
Sbjct	1921	GGACGCTCTCTGCTCTTAAACAATACAGGCCACCGTGGGCAATTGGTTCCGGTTGTACCTG	1980
Query	2003	GATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGAGGGGT	2062
Sbjct	1981	GATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGAGGGGC	2040
Query	2063	GGGCAACAAACACTTGTCTGCCCCACTGATTGCTTCCGAAACATCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACAAACACTTGTCTGCCCCACTGATTGCTTCCGAAACATCCGGAAGCCACATA	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGATGGTGCCTACCCGTATAG	2182
Sbjct	2101	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCTGGTGCCTACCCGTATAG	2160
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCACTATCCTTGTACCATCAACTACACCATATTTAAAAATCAGGATGTACGTGGG	2220
Query	2243	AGGGGTCGAGCAGAGCTGGAAGCGGCTGCAACTGGAACGCGGGGCGAACGCTGTGATCT	2302

Sbjct	2221	AGGGGTCGAACACAGGCTGGAAGCTGCCTGCAACTGGACGCGGGGGCAACGTTGCGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGCCACCACACAGTGGCAGGT	2362
Sbjct	2281	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGCTGACCACCTACACAGTGGCAGGT	2340
Query	2363	CCTTCCGTTGTTCTTTCACGACCCTGCCAGCCTTGTCCACGCGCTCATCCACCTCCACCA	2422
Sbjct	2341	CCTCCCGTTGTTCTTTCACAACTTACCAGCCTTGTCCACGCGCTCATCCACCTCCACCA	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTCTGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTCTGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTCGTTCTCTCTGCTTGTGCTTGCAGACGCGCGCTGCTCTCTG	2542
Sbjct	2461	TAAGTGGGAGTACGTCGTTCTCTCTGCTTGTGCTTGCAGACGCGCGCTGCTCTCTG	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGACGGTCTTGTGTCCTTCTCTGTTCTTCTGCTT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGACGGTCTTGTATCTCTCTCTGTTCTTCTGCTT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TGCATGGTATTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACACCTTCTACGGGATGTG	2700
Query	2723	GCCTCTCTCTGCTCTGCTGGCGTTGCTCAGCGGGCATACGCACTGGACACGGAGGT	2782
Sbjct	2701	GCCTCTCTCTGCTCTGTTGGCGTTGCCACGCGGGCTACGCGCTGGACACGGAGGT	2760
Query	2783	GGCCGCGTCGTTGGCGGCGTTGTTCTTGTGCGGTTAATGGCGCTGACTCTGTGCCATA	2842
Sbjct	2761	GGCCGCGTCGTTGGCGGCGTTGTTCTGTCGCGGTTGATGGCGCTGACTCTGTACCATA	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCATTGTGGTGGCTTCAGTATTTTCTGACCAGAGTGA	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTTCAACGTCCTCCGCGGAGCGCATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCCCTCAACGTCGAGGGGGCGCGACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCGACCTGGTATTGTAGCATCACCAAATCTCTCTGG	3021
Sbjct	2941	CTTACTCATGTGTGCT-GTACACCGACTCTGGTATTGTAGCATCACCAAATGCTGCTGG	2999
Query	3022	CCATCTCTCGAACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCTACTTCGTGC	3081
Sbjct	3000	CCGTCTCTCGAACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	CGGTTCACAGGCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGCTATTAC	3140
Sbjct	3060	CGGTTCACAGGCTTCTCCGGTCTGCGCGCTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAAATGGTATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3178
Query	3201	ACCCCTCTTCTGAGACTGGGGCGACAAACGCGCTGACGAGCATCTGGCGGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCTCTTCTGGGACTGGGGCGACAAACGCGCTTGGGAGATCTGGCGGTGGCTGTAGAGCCA	3238
Query	3261	GTCGCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACGCCCGGTGC	3320
Sbjct	3239	GTCGCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACGCCCGGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGGCCGCTCTGCCCCTAGGGGGCAGGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCCTGTTCCGCCGACAGGGGGCAGGAGATACTGCTCGGG	3358
Query	3381	CAAGCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCATACGGGCTAGCC	3440

Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGTGGAGGTTGCTGGCCGCATACGCGGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACAAGGGGCCCTCTAGGGTGTATAATCACCAGCCTACTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479	CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCAAACCTTCCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGAACGAGGACCATCGCATCACCC	3598
Query	3621	AAGGGTCTGTGATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCTGTGATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTTGACACCTGTACCTGCGGCTCCTCGGACCTTTACTGTGCT	3740
Sbjct	3659	CCCGAAGGTAGCCCGCTCATTTGACACCTGTACCTGCGGCTCCTCGGACCTTTACTGTGCT	3718
Query	3741	ACGAGGACGCCGATGTCATTCCTGTCGCCGGCAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGACGCCGATGTCATTCCTGTCGCCGGCGGGGTATAGCAGGGGACGCTGCTG	3778
Query	3801	TCGCCCCGGCCATTTCCTACTTGAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCGCGG	3860
Sbjct	3779	TCGCCCCGGCCATTTCCTACTTGAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCGCGG	3838
Query	3861	GGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGCACGCCGTGGGCATATTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAGCGGTG	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTACGGATAAC	3958
Query	3981	TCCTCTCCACAGAGATGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCACCGGC	4040
Sbjct	3959	TCCTCTCCACAGTAGTGGCCCAAGAGCTTCCAGTGGCTCACCCTCATGCTCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAGGTCCCGGCTGCGTAGCAGCCAGGGCTACAAGGTGTGGTG	4100
Sbjct	4019	AGCGGCAAAAGCACCAGGTCCCGGCTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTTGCTGCAACATGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCCTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	ATCGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCCTGGCAGCCCCATCACGTAC	4198
Query	4221	TCCACTACGGCAAGTTCCTTCCGACGGCGGGTGCTCAGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACTACGGCAAGTTCCTTCCGACGGCGGGTGCTCGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTGTGACAGAGTGCCACTCCACGATGCCACATCCACTTTGGGCATCGGCACTGTCTCT	4340
Sbjct	4259	ATTGTGACAGAGTGCCACTCCACGATGCCACATCCACTTTGGGCATCGGCACTGTCTCT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTGTGCTCGCCACCGCCACCCCTCCGGGC	4378
Query	4401	TCCGTCACTGTGTCCCATCTTAACATCGAGGAGGTTGCTCTGTCCACCACCGAGAGATC	4460
Sbjct	4379	TCCGTCACTGTGCCCATCCCAACATCGAGGAGGTTGCTCTGTCCACCACCGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAGAGAAGTGGCAGCAGCTCGCCGCGAAGCTGTGTCGATTGGGCATCAAT	4580

Sbjct 4499 TGTCAATCAAGAAGAAGTGCAGCAACTCGCCGCAAGCTGGTCGATTGGGCATCAAT 4558
Query 4581 GCCGTGGCCTACTACCGCGGCTCTTGACGTGCTGTGTCATCCGACCAAGCGGCGATGTTGTC 4640
Sbjct 4559 GCCGTGGCCTACTACCGCGGCTCTTGACGTGCTCGTCATCCGACCAAGCGGCGATGTTGTC 4618
Query 4641 GTCGTGTGCAGCCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC 4700
Sbjct 4619 GTCGTGGCAACCGATGCCCTCATGACCGCTATACCGGCGACTTCGACTCGGTGATAGAC 4678
Query 4701 TGCAACACGTGTGTCACTCAGACAGTCGATTTTACGCCCTTGACCTTACCTTTACCAATTGAG 4760
Sbjct 4679 TGCAATACGTGTGTCAACCAGACAGTCGATTTTACGCCCTTGACCTTACCTTACCAATTGAG 4738
Query 4761 ACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCGGGGAGGACTGGCAGG 4820
Sbjct 4739 ACAATCAGCTCCCCAGGATGCTGTCTCCGCACTCAACGTCGGGGAGGACTGGCAGG 4798
Query 4821 GGGAGCGCAGGATCTATAGATTTTGTGGCACCAGGGGAGCGCCCCCTCCGGCATGTTTCGAC 4880
Sbjct 4799 GGGAGCGCAGGATCTTACAGATTTTGTGGCACCAGGGGAGCGCCCCCTCCGGCATGTTTCGAC 4858
Query 4881 TCGTCCGTCTCTGTGAGTGTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC 4940
Sbjct 4859 TCGTCCGTCTCTGTGAGTGTATGACGCGAGGCTGTGCTTGGTATGAGCTCACGCCCGCC 4918
Query 4941 GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC 5000
Sbjct 4919 GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC 4978
Query 5001 CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCACTCATATAGATGCCACTTTT 5060
Sbjct 4979 CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCTCACTCATATAGATGCCACTTTTCTA 5038
Query 5061 TCCCAGACAAAGCAGAGTGGGAGAACTTCTTTACCTGGTAGCGTACCAAGCCACCGTG 5120
Sbjct 5039 TCCCAGACAAAGCAGAGTGGGAGAACTTCTTTACCTGGTAGCGTACCAAGCCACCGTG 5098
Query 5121 TGCCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTGTTGATCCGC 5180
Sbjct 5099 TGCCTAGGGCTCAAGGCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTGTTGATTCGC 5158
Query 5181 CTTAAACCCACCTTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAAGT 5240
Sbjct 5159 CTCAGGCCACCTTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAAGT 5218
Query 5241 GAAGTCACCCTGACGACCCCAATCACCATAATCATCATGACATGCATGTGCGCCGACCTG 5300
Sbjct 5219 GAAATCACCTTACGACACCCAGTCACCAATATCATGACATGCATGTGCGCCGACCTG 5278
Query 5301 GAGGTCGTGACGAGCACCCTGGGTGCTCGTTGGCGGCGTCTTGCTGCTTGGCCGCGTAT 5360
Sbjct 5279 GAGGTCGTGACGAGCACCCTGGGTGCTCGTTGGCGGCGTCTTGCTGCTTGGCCGCGTAT 5338
Query 5361 TGCCCTGCAACAGGCTGCGTGGTGCATAGTGGGAGGATCGTCTTGCCGGGAAGCCGGCA 5420
Sbjct 5339 TGCCCTGCAACAGGCTGCGTGGTGCATAGTGGGAGGATCGTCTTGCCGGGAAGCCGGCA 5398
Query 5421 ATTATACCTGACAGGAGGTCTCTTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA 5479
Sbjct 5399 ATCATCTTACGACAGGAGGATCTCTTACCAG-AGTTCGATGAGATGGAAGAGTGCTCTCA 5457
Query 5480 GCACCTACCGTACATCGAGCAAGGATGATGCTCGCTGAGCAGTTCAGCAGAAAGCCCT 5539
Sbjct 5458 GCACCTACCGTACATCGAGCAAGGATGATGCTCGCGAGCAGTTCAGCAGAAAGCCCT 5517
Query 5540 CGGCCCTCTGCAGACCGGCTCCCGCCATGCAGAGGTTATACCCCTGCTGTCCAGACCAA 5599
Sbjct 5518 CGGCCCTCTGCAGACCGGCTCCCGTCAGGACAGAGTTATCGCCCTGCTGTCCAGACCAA 5577
Query 5600 CTGGCAGAAACTCGAGGCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACA 5659
Sbjct 5578 CTGGCAAAACTCGAGACCTTCTGGGCGAAGCATATGTGGAATTCATCAGTGGGATACA 5637
Query 5660 ATACTTGGCGGGCTGTCAACGCTGCCCTGGTAACCCCGCCATTGCTTCATTGATGCGCTT 5719
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Sbjct	5638	ATACTTGGCGGGCTTGTCAACGCTGCTCGGTGAACCCCGCCATTGCTTCATTGATGGCTTT	5697
Query	5720	TACAGCTGCGGTACACAGCCCACTAACCACTGGCCAAACCTCCTCTTCAACATAATTGGG	5779
Sbjct	5698	TACAGCTGCTGTACACAGCCCACTAACCACTAGCCAAACCTCCTCTTCAACATAATTGGG	5757
Query	5780	GGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCGCTACTGCTTTGTGGGGCTGG	5839
Sbjct	5758	GGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCGCTACTGCTTTGTGGGGCTGG	5817
Query	5840	CCTAGCTGGCGCCGCATCGGCAGCGTTGGACTGGGGAAGGTCTCTGTTGACATTTCTTGC	5899
Sbjct	5818	CTTAGCTGGCGCCGCATCGGCAGTGTGGACTGGGGAAGGTCTCATAGACATCTCTTGC	5877
Query	5900	AGGGTATGGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGGGCGTGGCGGGAGCTCTTGTGTCATTCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCTCACGGAGGACCTGGTCAATCTGCTGCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCTCACGGAGGACCTGGTCAATCTACTGCGCGCCATCCTCTCGCCCGGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGACCAATACTGCGCCGGCAGCTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGAACCATGTTTCCCCACGCA	6139
Sbjct	6058	GCACTGGATGAACCGGCTGATAGCCTTCGCCCTCCCGGGGAACCATGTTTCCCCACGCA	6117
Query	6140	CTACGTGCCGGAGAGCATGACAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGATGACAGTGCCTGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTTCTGAGCGACTGCATCAGTGGATAAGCTCGGAGGTGACCACTCCATGCTC	6259
Sbjct	6178	AACCCAGCTTCTGAGCGACTGCACCAAGTGGATAAGCTCGGAGGTGACCACTCCATGCTC	6237
Query	6260	CGGTTCTCGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	CGGTTCTCGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACCTGCGTGGGATTCCTTTGTGCTCTGCCAGCG	6379
Sbjct	6298	CTGGCTGAAAGCTTAAGCTCATGCCACAGCTGCGTGGGATCCCTTTGTGCTCTGCCAGCG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	CGGGTATAGGGGGGTCTGGCGAGT-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCAGTGGACATGTCAAACGGGACGATGAGGATCGTGGTCTTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCAGTGGACATGTCAAACGGGACGATGAGGATCGTGGTCTTAGGACCTGCA	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCAATTAAACGCCATACACCACGGGCCCTGTACTCCCC	6558
Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCAATTAAAGCCATACACCACGGGCCCTGTACTCCCC	6536
Query	6559	TTCTTGGCGGCACTATAAGTTCGCGCTGTGGAGGGTGTCTGAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCTTGGCGGCACTACAGTTCGCGCTATGAGGGGTGTCTGACAGGAATATGTGGAGA	6596
Query	6619	TAAGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTAAATGC	6677
Sbjct	6597	TAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTAAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGTGCGCCTACACAGG	6737
Sbjct	6656	CCGTGCCAGGTCCCATCGCCCGAATTTTTCACAGAATTGGACGGGTGCGCCTACATAGG	6715
Query	6738	TTTGCGCCCCCTTGCAAGCCCTTGTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6797
Sbjct	6716	TTTGCGCCCCCTTGCAAGCCCTTGTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6775
Query	6798	GAGTACCCGGTGGGGTCGAATTACCTTGCAGGCCGAACCCGAGCATAGCCGTGTTGACG	6857

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Sbjct 6776 GAATACCCGGTAGGGTCGCAATTACCTTGCAGGCCGGAACCGGACGTGGCCGTGTTGACG 6835
Query 6858 TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGTTGGCGAGA 6917
Sbjct 6836 TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGCGAAGTTGGCGAG- 6894
Query 6918 GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA 6976
Sbjct 6895 GGGATCACCCCCCTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCGCTCCATCTCTCAA 6954
Query 6977 GGCAACTTGCACCGCCAAACCATGACTCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT 7036
Sbjct 6955 GGCAACTTGCACCGCTAACCATGACTCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT 7014
Query 7037 GTGGAGGCAGAGATGGGCGGCAACATACACAGGTTGAGTCAGAGAACAAAGTGGTGAT 7096
Sbjct 7015 ATGGAGGCAGAGATGGGCGGCAACATACACAGGTTGAGTCAGAGAACAAAGTGGTGAT 7074
Query 7097 TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC 7156
Sbjct 7075 TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGAGCAGCGGGAGATCTCCGTACCCGC 7134
Query 7157 AGAAATCTTCGCGAAGTCTCGGAGATTGCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGA 7216
Sbjct 7135 AGAAATCTTCGCGAAGTCTCGGAGATTGCCCGAGCCCTGCCCGTCTGGGCGCGGCCGGA 7194
Query 7217 CTACAACCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACTGTGGTCCA 7276
Sbjct 7195 CTATAACCCCGCTAGTAGAGACGTGGAAAAAGCCGACTACGAACCACTGTGGTCCA 7254
Query 7277 TGGCTGCCCGCTACCACTCCACGGTCCCTCCTGTGCTCCGCTTCGGAAGGAGGTAC 7336
Sbjct 7255 TGGCTGTCCGCTTCCACCTCCAAAGTCCCTCCTGTGCTCCGCTTCGGAAGAAGCGGAC 7314
Query 7337 GGTGTCCTCTACCGAATCAACCTATCTACTGCCTTGGCCGAGCTTGGCCACAAAAGTTT 7396
Sbjct 7315 GGTGTCCTCTACTGAATCAACCTATCTACTGCCTTGGCCGAGCTTCGCCACAGAGGCTT 7374
Query 7397 TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC 7456
Sbjct 7375 TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC 7434
Query 7457 CCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCTATTCTTCCATGCCCCCGTGA 7516
Sbjct 7435 CCCTTCTGGCTGCCCCCGGACTCCGACGCTGAGTCTATTCTTCCATGCCCCCGTGA 7494
Query 7517 GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGTTGACAGGTCAGTAGTGGGGC 7576
Sbjct 7495 GGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTATGTTCAACGGTCAGTAGTGAAGC 7554
Query 7577 CGACACGGAAGATGTGCGTGTGCTGCTCAATGTCTTATTCCTGGACAGGCGCACTCGCTAC 7636
Sbjct 7555 CAACCGGAGGATGTGCGTGTGCTGCTCAATGTCTTACTCTTGGACAGGCGCACTCGCTAC 7614
Query 7637 CCGTGCCTGCGGAAGAACAAAATGCCCATCAACGCACTGAGCAACTCGTTGCTACG 7696
Sbjct 7615 CCGTGCCTGCGGAAGAACAGAAATGCCCATCAATGCACTAAGCAACTCGTTGCTACG 7674
Query 7697 CCATCACAATCTGGTGATTTCCACCACTTCACGCGATGCTTGCCAAAGGCAAGAAAGT 7756
Sbjct 7675 TCACACACAATTTGGTGATTTCCACCACTTCACGCGATGCTTGCCAAAGGCAAGAAAGT 7734
Query 7757 CACATTTGACAGACTGCAAGTTCTGGACAGCACTACGAGGAGTGCTCAAGGAGGTCAA 7816
Sbjct 7735 CACATTTGACAGACTGCAAGTTCTGGACAGCACTACGAGGAGTACTCAAGGAGGTAA 7794
Query 7817 AGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACGCTGAC 7876
Sbjct 7795 AGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACGCTGAC 7854
Query 7877 GCCCCACATTACGCAAAATCCAAGTTTGGCTATGGGGCAAAAGAGCTCCGTTGCCATGC 7936
Sbjct 7855 GCCCCACACTACGCAAAATCCAAGTTTGGTTATGGGGCAAAAGAGCTCCGTTGCCATGC 7914
Query 7937 CAGAAAGGCGGTAGCCCAATCAACTCCGTGTGGAAGACCTTCTGGAAGACAGGTGAAC 7996
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Sbjct	7915	CAGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAATGTAAC	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTACGCCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTACGCCTGAGAAGGG	8034
Query	8057	GGGTGTAAGCAGCTCGTCTCATCGTGTTCGCCGACCTGGGCGTGCCTGTGCGAGAA	8116
Sbjct	8035	GGGTGTAAGCAGCTCGTCTCATCGTGTTCGCCGATCTGGGCGTGCCTGTGCGAGAA	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095	GATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8153
Query	8176	GATTCCAATACTACCCAGGACAGCGGGTTGAATTCCTCGTGAAGCGTGGAAAGTCCAAGA	8235
Sbjct	8154	GATTCCAATACTACCCAGGACAGCGGGTTGAATTCCTCGTGAAGCGTGGAAAGTCCAAGA	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214	AAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTGTACTCCACAGTCACTGAGAGCG	8273
Query	8296	ACATCCGTACGAGGAGGCAATTACCAATGTTGTGACCTGGACCCCAAGCCCGCGTGG	8355
Sbjct	8274	ACATCCGTACGAGGAGGCAATCTACCAATGTTGTGACCTGGACCCCAAGCCCGCGTGG	8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
Sbjct	8334	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8393
Query	8416	AAAACGTGGCGCTACCCGAGGTGCCGCGGAGCGCGCTACTGACAACCTAGCTGTGGTAACA	8475
Sbjct	8394	AGAACGTGGCGCTATCGCAGGTGCCGCGGAGCGCGCTACTGACAACCTAGCTGTGGTAACA	8453
Query	8476	CCCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTGAGCGCGAGGGCTCCAGGACTGCA	8535
Sbjct	8454	CCCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTGAGCGCGAGGGCTCCAGGACTGCA	8513
Query	8536	CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTCGCGGGGTCCAGGAGG	8595
Sbjct	8514	CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTCGCGGGGTCCAGGAGG	8573
Query	8596	ACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCGccccccccgggg	8655
Sbjct	8574	ACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCGCCCCCCTGGGG	8633
Query	8656	acccccACAACAGAATACGACTTGGAGCTTATAACATCATGCTCCTCAACGTGTGAG	8715
Sbjct	8634	ACCCCCACAACAGAATACGACTTGGAGCTTATAACATCATGCTCCTCAACGTGTGAG	8693
Query	8716	TGCGCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGCTGACCTACAACCCCC	8775
Sbjct	8694	TGCGCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGCTGACCTACAACCCCC	8753
Query	8776	TGCGGAGAGCCCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTCGGCTAGGCAACA	8835
Sbjct	8754	TGCGGAGAGCTGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTCGGCTAGGCAACA	8813
Query	8836	TAATCATGTTTGGCCCCCACTGTGGGCGAGGATGATACATGATGACCCATTCTTTAGCG	8895
Sbjct	8814	TAATCATGTTTGGCCCCCACTGTGGGCGAGGATGATACATGATGACCCATTCTTTAGCG	8873
Query	8896	TCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGCTGTGAGATCTACGGAGCCTGCT	8955
Sbjct	8874	TCCTTATAGCCAGGGACAGCTTGAACAGGCTCTGATGCGAGATCTACGGGCTGCT	8933
Query	8956	ACTCCATAGAACCACCTGGATCTACCTCCAATCAITCAAAGACTCCATGGCCTCAGCGCAT	9015
Sbjct	8934	ACTCCATAGAACCACCTTGAATCTACCTCCAATCAITCAAAGACTCCATGGCCTCAGCGCAT	8993
Query	9016	TTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCTGCCTCAGAAAAC	9075
Sbjct	8994	TTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCCGCTGCCTCAGAAAAC	9053
Query	9076	TTGGGGTCCCGCCTTGGCAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTC	9135

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Sbjct  9054  TTGGGGTACCGCCCTTGCAGCTTGGAGACACCGGGCCGGAGCGTCCGCGCTAGGCTTC 9113
Query   9136  TGTCAGAGGAGGCGAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA 9195
Sbjct  9114  TGCCAGAGGAGGCGAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA 9173
Query   9196  CAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGGCTGGACTTGTCCGGTTGGTTCA 9255
Sbjct  9174  CAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCAGCTGGACTTGTCCGGCTGGTTCA 9233
Query   9256  CGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGGCCCGCTGGT 9315
Sbjct  9234  CGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGGCCCGCTGGA 9293
Query   9316  TCTGGTTTTCCTACTCTGCTCGCTGCAGGGGTAGGCATCTACCTCTCTCCCAACCGAT 9375
Sbjct  9294  TCTGGTTTTCCTACTCTGCTCGCTGCAGGGGTAGGCATCTACCTCTCTCCCAACCGAT 9353
Query   9376  GAAGGTTGGGGTAAACACTCCGGCT 9401
Sbjct  9354  GAAGGTTGGGGTAAACACTCCGGCT 9379

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>dbj|DD495902.1| HEPATITIS C VIRUS (HCV) POLYPEPTIDES
Length=9379

Score = 1.516e+04 bits (8209), Expect = 0.0
Identities = 8996/9386 (95%), Gaps = 14/9386 (0%)
Strand=Plus/Plus

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Query   23  CACTCCACCATGAATCACTCCCCGTGTGAGGAAGTACTGTCTTACGCAGAAAGCGCTAG 82
Sbjct   1  CACTCCACCATGAATCACTCCCCGTGTGAGGAAGTACTGTCTTACGCAGAAAGCGCTAG 60
Query   83  CCATGGCGTTAGTATAGTGTGTCGTCAGCCTCCAGGAGCGCGGAGAGCCATA 142
Sbjct   61  CCATGGCGTTAGTATAGTGTGTCGTCAGCCTCCAGGAGCGCGGAGAGCCATA 120
Query  143  GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCTTTCTTGA 202
Sbjct  121  GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCTTTCTTGA 180
Query  203  TAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT 262
Sbjct  181  TCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT 240
Query  263  GTTGGGTCGCGAAAGGCCCTTGTGTTACTGCCTGATAGGGTGCTTGCAGAGTGCCCGGGAG 322
Sbjct  241  GTTGGGTCGCGAAAGGCCCTTGTGTTACTGCCTGATAGGGTGCTTGCAGAGTGCCCGGGAG 300
Query  323  GTCTCGTAGACCGGTGACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAACGTAA 382
Sbjct  301  GTCTCGTAGACCGGTGACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAACGTAA 360
Query  383  CACCAACCGTCGCCACAGGACGTCAGATTCCCGGGTGGCGGTGAGTCTGTTGGTGGAGT 442
Sbjct  361  CACCAACCGTCGCCACAGGACGTCAGATTCCCGGGTGGCGGTGAGTCTGTTGGTGGAGT 420
Query  443  TTACTTGTTCGCCGCGAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA 502
Sbjct  421  TTACTTGTTCGCCGCGAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA 480
Query  503  CGGGTCGCAACCTCGAGGTAGACGTACGCTATCCCCAAGGCACGTTCGGCCCGAGGGCAG 562
Sbjct  481  CGGGTCGCAACCTCGAGGTAGACGTACGCTATCCCCAAGGCCTGTCGGCCCGAGGGCAG 540
Query  563  GACCTGGGCTCAGCCCGGTACCTTGGCCCTCTATGGCAATGAGGGTTTCGGGTGGGC 622
Sbjct  541  GACCTGGGCTCAGCCCGGTACCTTGGCCCTCTATGGCAATGAGGGCTTCGGGTGGGC 600
Query  623  GGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGTGGGGCCCCACAGACCCCGGGG 682
Sbjct  601  GGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGTGGGGCCCCACAGACCCCGGGG 660
Query  683  TAGGTTCGCGCAATTGGGTAAAGGTATCGATACCTTACGTGCGGCTTCGCCACCTCAT 742
Sbjct  661  TAGGTTCGCGCAATTGGGTAAAGGTATCGATACCTTACGTGCGGCTTCGCCACCTCAT 720

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Sbjct	661	TAGGTCGCGCAATTGGGTAAAGTCATCGATACCCCTTACGTGCGGCTTCGCGCACTCAT	720
Query	743	GGGGTACATACCGCTCGTCGGCGCCCTCTTGAGGCGCGCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721	GGGGTACATACCGCTCGTCGGCGCCCTCTTGAGGCGCGCTGCCAGGGCCCTGGCGCATGG	780
Query	803	CGTCCGGGTTCCTGGAAGACGGCGTGAACATATGCAACAGGGAACTTCCTGGTTGCTCTTT	862
Sbjct	781	CGTCCGGGTTCCTGGAAGACGGCGTGAACATATGCAACAGGGAACTTCCTGGTTGCTCTTT	840
Query	863	CTCTATCTTCTTCTGGCCCTGCTCTCTTGCCTGACTGTGCCCGCTTACGCTACCAAGT	922
Sbjct	841	CTCTATCTTCTTCTGGCCCTGCTCTCTTGCCTGACTGTGCCCGCTTACGCTACCAAGT	900
Query	923	GCGCAATTCCTGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAATTCACGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGGCGGATGCCATCCTGCACACTCCGGGGTGTGTCCTTGCCTTCGCGAGGGGTAA	1042
Sbjct	961	CGAGGCGGGCGGATGCCATCCTGCACACTCCGGGGTGTGTCCTTGCCTTCGCGAGGGGCAA	1020
Query	1043	CGCCTCGAGGTGTGGGTGGCGGTGACCCCAACGGTGGCCACAGGGACGGCAAACTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTGGGTGGCGGTGACCCCAACGGTGGCCACAGGGATGGCAAACTCCC	1080
Query	1103	CACAACGCGAGCTTCGACGTCATATCGATCTGCTTGTGGGAGCGCCACCCCTCTGCTCGGC	1162
Sbjct	1081	CGCGACGCGAGCTTCGACGTCATATCGATCTGCTTGTGGGAGCGCCACCCCTCTGCTCGGC	1140
Query	1163	CCTCTACGTGGGGACCTGTGCGGGTCTGCTTTCTTGTGTGTCACAGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGGACCTATGCGGGTCTGCTTTCTTGTGTGTCACAGTTTACCTTCTC	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGGCAATATAAC	1282
Sbjct	1201	TCCCAGGCGCCACTGGACGACGCAAGGTGCAATTGCTCTATCTATCCCGGCAATATAAC	1260
Query	1283	GGGTATCGCATGGCATGGGATATGATGATGAACCTGGTCCCTACGGCAGCGTGGTGGT	1342
Sbjct	1261	GGGTATCGCATGGCATGGGATATGATGATGAACCTGGTCCCTACGGCAGCGTGGTGGT	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACATGATCGTGGTGTCTACTGGGG	1402
Sbjct	1321	GGCTCAGCTGCTCCGGATCCCAAGCCATCTTGGACATGATCGTGGTGTCTACTGGGG	1380
Query	1403	AGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACCTGGCGAAGGTCTCTGGTAGT	1462
Sbjct	1381	AGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACCTGGCGAAGGTCTCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCGCGGCTCGACGCGGAAACCCACGTACCGGGGGAATGCGGGCGC	1522
Sbjct	1441	GCTGCTGCTATTTGCGCGGCTCGACGCGGAAACCCACGTACCGGGGGAATGCGGGCCA	1500
Query	1523	CACCACGGCTGGGCTTGTGGTCTCCTTACACAGGCGCCAAGCAGAACATCCAAGTAT	1582
Sbjct	1501	CACCTGTGCTGGATTGTTAGCCCTCTCGCACAGGCGCCAAGCAGAACATCCAAGTAT	1560
Query	1583	CAACACCAACGGCAGTTGGCACAATAGCACGGCCTTGAATTGCAATTGAAAGCCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCCTCAATAGCACGGCCTTGAATTGCAATTGAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATCAACTCTCTCAGGCTGCTCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTCAACTCTCTCAGGCTGCTCTGA	1680
Query	1703	GAGGTGTGGCAGCTGCCGACGCCCTTACCGATTTTGCCACAGGGCTGGGGTCTATCAGTTA	1762
Sbjct	1681	GAGGTATGCGACGTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCTGGCACTACCCCTCAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGCCCCGACCAAGCGCCCTACTGCTGGCACTACCCCCCAAAACCTTG	1800
Query	1823	TGGCATTTGTGCCCGCAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCAGCCCCGT	1882

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Sbjct 1801 CGGTATTGTGCCCGCGAAGAGTGTGTGGTCCGGTATATTGCTTCACTCCGAGCCCGGT 1860
Query 1883 GGTGGTGGGAACGACGACGAGTGGGCGCGCCTACCTACAGTGGGGTGCAAAATGATAC 1942
Sbjct 1861 GGTGGTGGGAACGACGACGAGTGGGCGCGCCACCTACAGTGGGGTGAAAAATGATAC 1920
Query 1943 GGATGCTCTTCGTCTTAAACAACACAGGCCACCGTGGGCAATTGGTTGCGTTGTACCTG 2002
Sbjct 1921 GGACGTCTCTTCGTCTTAAACAATACCAGGCCACCGTGGGCAATTGGTTGCGTTGTACCTG 1980
Query 2003 GATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT 2062
Sbjct 1981 GATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGCCTCTTGTGTCATCGGAGGGGC 2040
Query 2063 GGGCAACAACACCTTGTCTGCCCCACTGATTGCTCCGCAAACTCCGGAAGCCACATA 2122
Sbjct 2041 GGGCAACAACACCTGCTACTGCCCACTGATTGCTCCGCAAGCATCCGACGCCACATA 2100
Query 2123 CTCTCGGTGCGGCTCCGGTCCCTGGATTACCCACAGGTGATGGTCGACTACCCGTATAG 2182
Sbjct 2101 CTCTCGGTGCGGCTCCGGTCCCTGGATTACCCACAGGTGCTGGTCGACTACCCGTATAG 2160
Query 2183 GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG 2242
Sbjct 2161 GCTTTGGCAATTATCCTTGTACCATCAACTACACCATATTTAAAAATCAGGATGTACGTGGG 2220
Query 2243 AGGGGTGCGACACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT 2302
Sbjct 2221 AGGGGTGGAACACAGGCTGGAAGCTGCCTGCAACTGGACGCGGGGCGAACGTTGCGATCT 2280
Query 2303 GGAAGACAGGGACAGTCCGAGCTCAGCCGTTGCTGCTCCACCAACACAGTGGCAGGT 2362
Sbjct 2281 GGAAGACAGGGACAGTCCGAGCTCAGCCGTTACTGCTGACCACTACACAGTGGCAGGT 2340
Query 2363 CCTCCGTTGTTCTTTCACGACCCTGCCAGCCTTGTCCACGGGCTCATCCACCTCCACCA 2422
Sbjct 2341 CCTCCGTTGTTCTTTCACAACCTACCAGCCTTGTCCACGGGCTCATCCACCTCCACCA 2400
Query 2423 GAACATTGTGGACGTGCGACTTGTACGGGGTAGGGTCAAGCATCGCGTCTCTGGGCCAT 2482
Sbjct 2401 GAACATTGTGGACGTGCGACTTGTACGGGGTGGGGTCAAGCATCGCGTCTCTGGGCCAT 2460
Query 2483 TAAGTGGGAGTACGTGTTCTCTGTTCTTCTGCTTGCAGACGCGCGCTGCTCTCTCTG 2542
Sbjct 2461 TAAGTGGGAGTACGTGTTCTCTGTTCTTCTGCTTGCAGACGCGCGCTGCTCTCTCTG 2520
Query 2543 CTGTGGATGATGTTACTCATATCCCAAGCGGAGCGCGCTTGGAGAACCTCGTAATACT 2602
Sbjct 2521 CTGTGGATGATGTTACTCATATCCCAAGCGGAGCGCGCTTGGAGAACCTCGTAATACT 2580
Query 2603 CAATGCAGCATCCCTGGCCGGGACGACAGGTCTTGTGTCCTTCTCTGTTCTTCTGCTT 2662
Sbjct 2581 TAATGCAGCATCCCTGGCCGGGACGACAGGTCTTGTATCCTTCTCTGTTCTTCTGCTT 2640
Query 2663 TCGTGGTATGCTGAAGGGTAGTGGGTGCCGGAGCGGTCTACGCCCTCTACGGGATGTG 2722
Sbjct 2641 TGCATGGTATTGGAAGGGTAAGTGGGTGCCGGAGCGGTCTACACCTTCTACGGGATGTG 2700
Query 2723 GCCTCTCTCTCTGCTCTCTGCTGGCGTTGCTCAGCGGGCATAACGACTGGACACGGAGT 2782
Sbjct 2701 GCCTCTCTCTCTGCTCTCTGCTGGCGTTGCTCAGCGGGCATAACGCTGGACACGGAGT 2760
Query 2783 GGCCGCGTCTGTGGCGGCGTTGTTCTTGTGCGGTAAATGGCGCTGACTCTGTGCCATA 2842
Sbjct 2761 GGCCGCGTCTGTGGCGGCGTTGTTCTTGTGCGGTGATGGCGCTGACTCTGTACCATA 2820
Query 2843 TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAATTTTCTGACCAGAGTAGA 2902
Sbjct 2821 TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAATTTTCTGACCAGAGTAGA 2880
Query 2903 AGCGCAACTGCACGTGTGGGTTTCAACGTCCTCGGGGGGCGCGATGCCGTCAT 2962
Sbjct 2881 AGCGCAACTGCACGTGTGGATTCCCCCCCTCAACGTCCTCGAGGGGGGCGCGACCGGTCAT 2940
Query 2963 CTTACTCATGTGTG-TAGTACACCGACCTGGTATTGTGACATACCAAACCTACTCTGG 3021
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Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTATTGACATCACCAAAATGCTGCTGG	2999
Query	3022	CAATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGGCTTAAAGTCCCTTACTTGTGTC	3081
Sbjct	3000	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGGCTTAAAGTACCTTACTTTGTGTC	3059
Query	3082	GGGTTCAAGGCCCTTCTCCGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060	GGGTTCAAGGCCCTTCTCCGGTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAAATGGTCATCATTAAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201	ACCCCTCTTCGAGACTGGGCGCACACGGCTTGCAGATCTGGCCGTGGCTGTGGAAACCA	3260
Sbjct	3179	ACTCTCTTCGGGACTGGGCGCACACGGCTTGCAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTGCTCTTCTCCGGAATGGAGACCAAGCTCATACGTGGGGGCGAGATACGCCCGGTGC	3320
Sbjct	3239	GTGCTCTTCTCCCAAAATGGAGACCAAGCTCATACGTGGGGGCGAGATACGCCCGGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTCCCGCTCTGCCCCGATAGGGGCGAGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCCTGTTCCGCCGCGAGGGGCGGAGATACTGCTCGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTTGTCTGGCGCCCATACGGCGTACGCC	3440
Sbjct	3359	CCAGCCGATGGAAATGGTCTCCAAGGGTGGAGGTTGTCTGGCGCCCATACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCTGACTGGCCGGGACAAAAC	3500
Sbjct	3419	CAGCAGACAAGGGGCCCTCTAGGGTGTATAATCACCAGCTTAAGTGGCCGGGACAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCTGGCAACGTGC	3560
Sbjct	3479	CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCAAACCTTCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGGTACACC	3598
Query	3621	AAGGGTCTCTGATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCTCTGATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	CCGCAAGGTAGCGCTCATTGACACCTGTACTTGGGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTCTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTCTCCCGTGCGCCGGCGGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCCCGG	3860
Sbjct	3779	TCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCCCGG	3838
Query	3861	GGACACGCCGTGGGCTATTTCAGGGCCGCGGTGTGACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGACACGCCGTGGGCTATTTCAGGGCCGCGGTGTGACCCGTGGAGTGGCTAAAGCGGTG	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCGGTGTTCACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCGGTGTTCACGGATAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGCCTCAGAGCTTCCAGGTGGCCACCTGCATGCTCCACCGGC	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGCCTCAGAGCTTCCAGGTGGCTCACTCCATGCTCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCAGGGGTACAAGGTTTGGTG	4100
Sbjct	4019	AGCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGTCTACATGTCAAGGCCCATGGG	4160

Sbjct	4079	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTTGGTCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCAGGTAC	4220
Sbjct	4139	ATCGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCAGGTAC	4198
Query	4221	TCCACCTACGGCAAGTTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACCTACGGCAAGTTTCCTTGCCGACGGCGGGTGCTCGGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACCTGTCCTT	4340
Sbjct	4259	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACCTGTCCTT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4378
Query	4401	TCCGTCACTGTGTCCCATCTTAACATCGAGGAGGTGTCTGTGCCACACCGGAGAGATC	4460
Sbjct	4379	TCCGTCACTGTGTCCCATCTTAACATCGAGGAGGTGTCTGTGCCACACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAGAAGAAGTGGCAGGAGCTCGCCGCGAAGCTGGTGCATTTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAGAAGAAGTGGCAGGAGCTCGCCGCGAAGCTGGTGCATTTGGGCATCAAT	4558
Query	4581	GCCGTGGCTACTACTCCGCGGCTCTTGACGTGTCTGTGTCATCCGACAGCGGCGATGTTGTC	4640
Sbjct	4559	GCCGTGGCTACTACTCCGCGGCTCTTGACGTGTCTGTGTCATCCGACAGCGGCGATGTTGTC	4618
Query	4641	GTCGTGTGACCCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4619	GTCGTGGCAACCGATGCCCTCATGACCGCTATACCGGCGACTTCGACTCGGTGATAGAC	4678
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTTACGCTTACCCCTACCTTTACCAATTGAG	4760
Sbjct	4679	TGCAATACGTGTGTCACTCAGACAGTCGATTTTACGCTTACCCCTACCTTTACCAATTGAG	4738
Query	4761	ACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCGGGGCGAGGACTGGCAGG	4820
Sbjct	4739	ACAATCACGCTCCCCAGGATGCTGTCTCCGCACTCAAGCTCGGGGCGAGGACTGGCAGG	4798
Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCAGGGGAGCGCCCCCTCCGGCATGTTTCGAC	4880
Sbjct	4799	GGGAAGCCAGGCATCTACAGATTTGTGGCACCAGGGGAGCGCCCCCTCCGGCATGTTTCGAC	4858
Query	4881	TCGTCGGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4940
Sbjct	4859	TCGTCGGTCTCTGTGAGTGCTATGACGAGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGTTCCCGTGTGCCAGGAC	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCCTACTCATATAGATGCCCACTTTTCTA	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCCTACTCATATAGATGCCCACTTTCTA	5038
Query	5061	TCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACCTTGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	TCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACCTTGTAGCGTACCAAGCCACCGTG	5098
Query	5121	TGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTGTTGATCCGC	5180
Sbjct	5099	TGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTGTTGATCCGC	5158
Query	5181	CTTAACCACCCCTCCATGGGCGAACCCCTGCTATACAGACTGGGCGCTGTTTCAGAAT	5240
Sbjct	5159	CTCAAGCCCACTCCATGGGCGAACCCCTGCTATACAGACTGGGCGCTGTTTCAGAAT	5218
Query	5241	GAAGTCAACCCTGACGACCCAATACCAAATACATCATGACATGCATGTGCGGCGACCTG	5300

Sbjct	5219	GAAATCACCCCTGACGCACCCAGTCACCAAAATACATCATGACATGCATGTCGCCGACCTG	5278
Query	5301	GAGGTCGTGACGAGCACCCTGGGTGCTCGTTGGCGGCGTCCTGGCTGCTCTGGCCGCGTAT	5360
Sbjct	5279	GAGGTCGTGACGAGCACCCTGGGTGCTCGTTGGCGGCGTCCTGGCTGCTTTGGCCGCGTAT	5338
Query	5361	TGCCTGTCAACAGCGCTGCGTGGTATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5420
Sbjct	5339	TGCCTGTCAACAGCGCTGCGTGGTATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5398
Query	5421	ATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	ATCATACCTGACAGGGAAGTCTCTACCGAG-AGTTCGATGAGATGGAAGAGTGCTCTCA	5457
Query	5480	GCACCTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	GCACCTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCT	5517
Query	5540	CGGCTCCTGACAGCCGCTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518	CGGCTCCTGACAGCCGCTCCCGCTCAGGCAGAGGTTATCGCCCTGCTGTCCAGACCAA	5577
Query	5600	CTGGCAGAAACTCGAGGTCCTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACA	5659
Sbjct	5578	CTGGCAAAACTCGAGACCTTCTGGGCGAAGCATATGTGGAATTCATCAGTGGGATACA	5637
Query	5660	ATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638	ATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5697
Query	5720	TACAGCTGCCGTACACGCCCACTAACCACTGGCCAAACCTCCTCTTCAACATATT ⁹⁹⁹	5779
Sbjct	5698	TACAGCTGCTGTACACGCCCACTAACCACTAGCCAAACCTCCTCTTCAACATATTGGG	5757
Query	5780	⁹⁹⁹ TGGGTGGCTGCCAGCTCGCCGCCCGCGTGCCGCTACTGCCCTTTGTGGGTGCTGG	5839
Sbjct	5758	GGGTTGGGTGGCTGCCAGCTCGCCGCCCGCGTGCCGCTACTGCCCTTTGTGGGTGCTGG	5817
Query	5840	CCTAGCTGGCGCCGCATCGGCAGCGTTGGACTGGGGAAGGTCTCTGTTGACATTCTTGC	5899
Sbjct	5818	CTTAGCTGGCGCCGCATCGGCAGTGTGGACTGGGGAAGGTCTCTATAGACATCTCTGC	5877
Query	5900	AGGGTATGGCGGGGCGTGGCGGGAGCTCTTGTAGCATCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGGGGCGTGGCGGGAGCTCTTGTGACATCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCCCACGGAGGACCTGGTCAATCTGCTGCCCGCATCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCCCACGGAGGACCTGGTCAATCTACTGCCCCGCATCTCTCGCCGGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGCGACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGGCTGGTCTGTGACCAATACTGCGCCGCGACGTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCACGCA	6139
Sbjct	6058	GCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCACGCA	6117
Query	6140	CTACGTGCCGGAGAGCGATGAGCCGCCCGCGTCACTGCCATACCTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGATGAGCTGCCCGCGTCACTGCCATACCTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGACCACCTCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCACTGGATAAGCTCGGAGTGACCACCTCCATGCTC	6237
Query	6260	CGGTTCCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGCACTTTAAGAC	6319
Sbjct	6238	CGGTTCCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGCACTTTAAGAC	6297
Query	6320	CTGGCTGAAGGCCAAGCTCATGCCACAACCTGCCTGGGATTCCTTTGTGCTCTGCCAGCG	6379
Sbjct	6298	CTGGCTGAAGGCTAAGCTCATGCCACAAGCTGCCTGGGATCCCTTTGTGCTCTGCCAGCG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438

Sbjct	6358	CGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCAGTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCAGTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCA	6476
Query	6499	GGAAACATGTGGAGTGGGACGTTCCCATTAACGCCTACACCAGGGCCCTGTACTCCCC	6558
Sbjct	6477	GGAAACATGTGGAGTGGGACCTTCCCATTAATGCCCTACACCAGGGCCCTGTATCCCCC	6536
Query	6559	TTCTCGCGCCGAAGCTATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCTCGCGCCGAAGCTACACGTTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596
Query	6619	TAAAGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAAGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCGAATTTTTCACAGAAITGGACGGGTGCGCCTACACAGG	6737
Sbjct	6656	CCGTGCCAGGTCCCATCGCCGAATTTTTCACAGAAITGGACGGGTGCGCCTACATAGG	6715
Query	6738	TTTGCGCCCCCTTGCAGAGCCCTTGTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6797
Sbjct	6716	TTTGCGCCCCCTTGCAGAGCCCTTGTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6775
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCAGGCCGAACCGGACGTAGCCGTTGTGAGC	6857
Sbjct	6776	GAAATACCCGGTAGGGTCGCAATTACCTTGCAGGCCGAACCGGACGTAGCCGTTGTGAGC	6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCGGGAGAGGTTGGCGGAG	6917
Sbjct	6836	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCGGGCGAGAGGTTGGCGGAG	6894
Query	6918	GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976
Sbjct	6895	GGGATCACCCCTTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCGCTCCATCTCTCAA	6954
Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955	GGCAACTTGCACCGCTAACCATGACTCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT	7014
Query	7037	GTGGAGGCAGGAGATGGGCGCAACATACCCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015	ATGGAGGCAGGAGATGGGCGCAACATACCCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7074
Query	7097	TCGTGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGCTCCCGTACCTGC	7156
Sbjct	7075	TCGTGACTCCTTCGATCCGCTTGTGGCAGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157	AGAAATCTTCGCGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCGCTTGGGCGCGGCCGA	7216
Sbjct	7135	AGAAATCTTCGCGAAGTCTCGGAGATTGCCCAAGGCCCTGCCCGCTTGGGCGCGGCCGA	7194
Query	7217	CTACAACCCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACGAACACCTGTGGTCCA	7276
Sbjct	7195	CTATAACCCCCGCTAGTGAGAGAGCTGGAAAAAGCCGACTACGAACACCTGTGGTCCA	7254
Query	7277	TGGCTGCCGCTACCACTTCCACGGTCCCTCCTGTGCCCTCCGCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TGGCTGTCGCTTCCACCTTCCAAAGTCCCTCCTGTGCCCTCCGCTCGGAAAGAGCGAC	7314
Query	7337	GGTGGTCTCTACCGAATCAACCTTATCTACTGCCTTGGCCGAGCTTGGCCACCAAAAGTTT	7396
Sbjct	7315	GGTGGTCTCTACTGAATCAACCTTATCTACTGCCTTGGCCGAGCTTGGCCACCAAGCTT	7374
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	7375	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7434
Query	7457	CCCTTCTGGCTGCGGCGGCTGACTCCGACGTTGAGTCTATTCTTCCATGCGGCGGCTGGA	7516
Sbjct	7435	CCCTTCTGGCTGCGGCGGCTGACTCCGACGCTGAGTCTATTCTTCCATGCGGCGGCTGGA	7494
Query	7517	GGGGGAGCTGGGGATCCGGATCTCAGCGACGGGTATGGTCGACGGTCAGTAGTGGGGC	7576

Sbjct	7495	GGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCATGGTCAACGGTCAGTAGTGAGGC	7554
Query	7577	CGACACGGAAGATGTGCTGTCTGCTCAATGTCTTAATCTCGACAGCGGCACCTCGTCAAC	7636
Sbjct	7555	CAACCGGAGGATGTGCTGTCTGCTCAATGTCTTACTCTTGACAGCGGCACCTCGTCAAC	7614
Query	7637	CCCGTGCCTGCGGGAAGAAACAAAACCTGCCATCAACGCACTGAGCAACTCGTTGCTACG	7696
Sbjct	7615	CCCGTGCCTGCGGGAAGAAACAGAACTGCCATCAATGCACTAAGCAACTCGTTGCTACG	7674
Query	7697	CCATCACAACTCGGTGTATTCCACCACCTTCACGCACTGCTTGCCAAAGGCAGAGAAAGT	7756
Sbjct	7675	TCACCACAATTGGGTGTATTCCACCACCTTCACGCACTGCTTGCCAAAGGCAGAGAAAGT	7734
Query	7757	CACATTGACAGACTGCAAGTTCGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735	CACATTGACAGACTGCAAGTTCGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7794
Query	7817	AGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACGCTGAC	7876
Sbjct	7795	AGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACGCTGAC	7854
Query	7877	GCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGTCCTGTTGCCATGC	7936
Sbjct	7855	GCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGGCAAAGACGTCCTGTTGCCATGC	7914
Query	7937	CAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTCTGGAAGACAGTGTAAAC	7996
Sbjct	7915	CAGAAAGGCCGTAAACCCACATCAACTCCGTGTGGAAGACCTTCTGGAAGACAGTGTAAAC	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTACGCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTACGCTGAGAAGGG	8034
Query	8057	GGGTGCTAAGCCAGCTCGTCTCATCGTGTCCCGACCTGGGCGTGCCTGTGCGGAGAA	8116
Sbjct	8035	GGGTGCTAAGCCAGCTCGTCTCATCGTGTCCCGACTGGGCGTGCCTGTGCGGAGAAA	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095	GATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8153
Query	8176	GATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTGTCGAAGCGTGAAGTCCAAGA	8235
Sbjct	8154	GATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTGTCGAAGCGTGAAGTCCAAGA	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214	AAACCCCAATGGGGTTCTCGTATGATACCCGCTGTTTGACTCCACAGTCACTGAGAGCG	8273
Query	8296	ACATCCGTACGAGGAGGCAATTTACCAATGTTGTGACCTTGACCCCAAGCCCGGTGG	8355
Sbjct	8274	ACATCCGTACGAGGAGGCAATCTACCAATGTTGTGACCTTGACCCCAAGCCCGGTGG	8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGG	8415
Sbjct	8334	CCATCAAGTCCCTCACCAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGG	8393
Query	8416	AAAACCTGCGCTACCGCAGGTGCGCGCGAGCGCGTACTGACAACTAGCTGTGGTAACA	8475
Sbjct	8394	AGAACTGCGCTATCGCAGGTGCGCGCGAGCGCGTACTGACAACTAGCTGTGGTAACA	8453
Query	8476	CCCTCACTTGCTACATCAAGGCCCGGCGAGCCTGTGAGCCCGAGGGCTCCAGGACTGCA	8535
Sbjct	8454	CCCTCACTTGCTACATCAAGGCCCGGCGAGCCTGTGAGCCCGAGGGCTCCAGGACTGCA	8513
Query	8536	CCATGCTCGTGTGCGGACGACTTAGTCTGTTATCTGTGAAAGTGCAGGGGTCAGGAGG	8595
Sbjct	8514	CCATGCTCGTGTGCGGACGACTTAGTCTGTTATCTGTGAAAGTGCAGGGGTCAGGAGG	8573
Query	8596	ACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCG	8655
Sbjct	8574	ACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCG	8633
Query	8656	ACCCCAACAACAGAAATACGACTTGGAGCTTATAACATCATGCTCCTCAACGTGTAC	8715

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Sbjct  8634  ACCCCCCACAACCAGAATACGACTTGGAGCTCATAACATCATGCTCCCTCCAACGTGTCAG 8693
Query   8716  TCGCCACGACGCGCGTGGAAAGAGGGTCTACTACCTTACCCGTGACCTACAAACCCCC 8775
Sbjct  8694  TCGCCACGACGCGCGTGGAAAGAGGGTCTACTACCTACCCGTGACCTACAAACCCCC 8753
Query   8776  TCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTTGGCTAGGCAACA 8835
Sbjct  8754  TCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTTGGCTAGGCAACA 8813
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Sbjct  8874  TCCTTATAGCCAGGGACAGCTTGAACAGGCCTCGATTGCGAGATCTACGGGCGCTGCT 8933
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Sbjct  8994  TTCTACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCCGCATGCCTCAGAAAAC 9053
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Sbjct  9054  TTGGGGTACC GCCCTTGGCGAGCTTGGAGACACCGGGCCCGGAGCGCTCCGCGCTAGGCTTC 9113
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Sbjct  9114  TGCCAGAGGAGGCGAGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCGAGTAAGAA 9173
Query   9196  CAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGAATGTGCGGGTGGTTCA 9255
Sbjct  9174  CAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCAGCTGGAATGTGCGGGTGGTTCA 9233
Query   9256  CGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCGCTGGT 9315
Sbjct  9234  CGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCGCTGGA 9293
Query   9316  TCTGGTTTTCGCTACTCCTGCTGCTGCGAGGGTAGGCACTACCTCCTCCCCAACCGAT 9375
Sbjct  9294  TCTGGTTTTCGCTACTCCTGCTGCTGCGAGGGTAGGCACTACCTCCTCCCCAACCGAT 9353
Query   9376  GAAGGTTGGGGTAACACTCCGGCCT 9401
Sbjct  9354  GAAGGTTGGGGTAACACTCCGGCCT 9379

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Length=9379

Score = 1.516e+04 bits (8209), Expect = 0.0
Identities = 8996/9386 (95%), Gaps = 14/9386 (0%)
Strand=Plus/Plus

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Query   23  CACTCCACCATGAATCACTCCCCIGTGAGGAACCTACTGCTTTCACGCAGAAAGCGCTAG 82
Sbjct   1  CACTCCACCATGAATCACTCCCCIGTGAGGAACCTACTGCTTTCACGCAGAAAGCGCTAG 60
Query   83  CCAATGGCGTGTAGTATGAGTGTGTCGAGCCTCCAGGAACCCCCCTCCGGGAGAGCCATA 142
Sbjct   61  CCAATGGCGTGTAGTATGAGTGTGTCGAGCCTCCAGGAACCCCCCTCCGGGAGAGCCATA 120
Query  143  GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCTTTCTTGA 202
Sbjct  121  GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCTTTCTTGA 180
Query  203  TAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCCGAAGACTGCTAGCCGAGTAGT 262
Sbjct  181  TCAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCCGAAGACTGCTAGCCGAGTAGT 240
Query  263  GTTGGGTGCGGAAAGCGCTTGTGTTACTGCCTGATAGGGTGCTTGCAGAGTGCCCGGGAG 322

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Sbjct	241	GTGGGGTCGCGAAAGGCCCTTGTTGGTACTGCCATGATAGGGTGGCTGCGAGTGCCTCGGGAG	300
Query	323	GTCTCGTAGACCGGTGACCATGAGCAGCAATCCTAAACCTCAAAAGAAAAACCAACGTAA	382
Sbjct	301	GTCTCGTAGACCGGTGACCATGAGCAGCAATCCTAAACCTCAAAAGAAAAACCAACGTAA	360
Query	383	CACCAACCGTCGCCACAGGACGTCAGTTCCCGGGTGGCGGTGAGATCGTTGGTGGAGT	442
Sbjct	361	CACCAACCGTCGCCACAGGACGTCAGTTCCCGGGTGGCGGTGAGATCGTTGGTGGAGT	420
Query	443	TTACTTGTTCGCCGCGAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502
Sbjct	421	TTACTTGTTCGCCGCGAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	480
Query	503	GCGGTCGCAACCTCGAGGTAGACGTGACCTATCCCCAAGGCACGTGCGCCGAGGGCGAG	562
Sbjct	481	GCGGTCGCAACCTCGAGGTAGACGTGACCTATCCCCAAGGCCTGCTGCGCCGAGGGCGAG	540
Query	563	GACCTGGGCTCAGCCCGGGTACCTTGGCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541	GACCTGGGCTCAGCCCGGGTACCTTGGCCCTCTATGGCAATGAGGGCTGCGGGTGGGC	600
Query	623	GGGATGGCTCTCTGCTCCCGTGGCTCTCGGCCCTAGCTGGGGCCCCACAGACCCCGGGG	682
Sbjct	601	GGGATGGCTCTCTGCTCCCGTGGCTCTCGGCCCTAGCTGGGGCCCCACAGACCCCGGGG	660
Query	683	TAGGTCGCGCAATTTGGGTAAGGTATCGATACCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661	TAGGTCGCGCAATTTGGGTAAGGTATCGATACCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721	GGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGG	780
Query	803	CGTCCGGGTTCGGAAGACGCGTGAACATGCAACAGGGAACTTCTCGTTGCTCTTT	862
Sbjct	781	CGTCCGGGTTCGGAAGACGCGTGAACATGCAACAGGGAACTTCTCGTTGCTCTTT	840
Query	863	CTCTATCTTCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCGCTTACGCTACCAAGT	922
Sbjct	841	CTCTATCTTCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCGCTTACGCTACCAAGT	900
Query	923	GCGCAATTCCTCGGGGCTTTACCATGTACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAATTCCTCGGGGCTTTACCATGTACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCGGATGCCATCTTGACACTCCGGGGTGTGTCCTTTCGCTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCGGCGGATGCCATCTTGACACTCCGGGGTGTGTCCTTTCGCTTCGCTAGAGGCAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCGGTTGGCCACGAGGACGGCAAACTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCGGTTGGCCACGAGGATGGCAAACTCCC	1080
Query	1103	CACAACGCGAGCTTCGACGTCATATCGATCTGCTTGTGGGAGCGCCACCTCTGCTCGGC	1162
Sbjct	1081	CAGCAGCGAGCTTCGACGTCATATCGATCTGCTTGTGGGAGCGCCACCTCTGCTCGGC	1140
Query	1163	CCTCTACGTGGGGACCTGTGCGGGTCTGCTTTCTTGTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGGACCTGTGCGGGTCTGCTTTCTTGTGGTCAACTGTTTACCTTCTC	1200
Query	1223	TCCAGGCGCCACTGGACGACGCAAGACTGCAATTTGCTATCTATCCCGGCCATATAAC	1282
Sbjct	1201	TCCAGGCGCCACTGGACGACGCAAGGTTGCAATTTGCTATCTATCCCGGCCATATAAC	1260
Query	1283	GGGTATCGCATGGCATGGGATATGATGATGAACGTGCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261	GGGTATCGCATGGCATGGGATATGATGATGAACGTGCCCTACGGCAGCGTTGGTGGT	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACATGATCGTGGTGTCTACTGGGG	1402
Sbjct	1321	AGCTCAGCTGCTCCGGATCCCAAGCCATCTGGACATGATCGTGGTGTCTACTGGGG	1380
Query	1403	AGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACGTGGCGGAAGGTCCTGTAGT	1462

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Sbjct 1381 AGTCTGCGCGGCATACGCTATTTCCTCATGTTGGGGAACATGGCGGAAGGCTCTGGTAGT 1440
Query 1463 GCTGCTGCTATTATTGCGCGCGTCGACGCGGAAACCCAGCTCACCGGGGGAATATCGCGGCG 1522
Sbjct 1441 GCTGCTGCTATTATTGCGCGCGTCGACGCGGAAACCCAGCTCACCGGGGGAAGTGC CGGCCA 1500
Query 1523 CACCACGGCTGGGCTTGTGTGCTCTTACACACAGGCGCCAAGCAGAACATCCAACTGAT 1582
Sbjct 1501 CACTGTGTCTGGATTGTGTAGCCTCCTCGACACAGGCGCCAAGCAGAACCTGCAGCTGAT 1560
Query 1583 CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAAATGCAATGAAAGCCCTTAA 1642
Sbjct 1561 CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCTGAACTGCAATGATAGCCTCAA 1620
Query 1643 CACCGGCTGGTTAGCAGGCGCTCTTCTATCAACACAAATTAACCTCTTCAGGCTGCTCTGA 1702
Sbjct 1621 CACCGGCTGGTTGGCAGGCGCTTTCTATCACCACAAAGTTCAACTCTTCAGGCTGCTCTGA 1680
Query 1703 GAGGTTGGCCAGCTGCCGACGCCCTTACCGATTTTGCCACAGGCGTGGGGTCTCTATCAGTTA 1762
Sbjct 1681 GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGCGTGGGGCCCTATCAGTTA 1740
Query 1763 TGCCAACGGAAGCGGCGCTCGACGAACGCCCTACTGCTGGCACTACCTCCAAAGACCTTG 1822
Sbjct 1741 TGCCAACGGAAGCGGCGCCGACGAGCGCCCTACTGCTGGCACTACCCCCAAAACCTTG 1800
Query 1823 TGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGTATATTGCTTCACCTCCAGCCCCGT 1882
Sbjct 1801 CGGTATTGTGCCCGCAAGAGTGTGTGTGGTCCGGTATATTGCTTCACCTCCAGCCCCGT 1860
Query 1883 GGTGGTGGGAACGACGACAGGTGCGGCGCGCCTACCTACAGCTGGGGTGCAAAATGATAC 1942
Sbjct 1861 GGTGGTGGGAACGACGACAGGTGCGGCGCGCCCACTACAGCTGGGGTGAAAAATGATAC 1920
Query 1943 GGATGCTCTTCGTCTTAAACAACACGAGGCCACCGTGGGCAATTGGTTTCGGTTGTACCTG 2002
Sbjct 1921 GGACGCTCTTCGTCTTAAACAATACGAGGCCACCGTGGGCAATTGGTTTCGGTTGTACCTG 1980
Query 2003 GATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT 2062
Sbjct 1981 GATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGCCCTCTTGTGTCATCGGAGGGGC 2040
Query 2063 GGGCAACAACACCTTGCTCTGCCCACTGATTGCTTCGCGAAACATCCGGAAGCCACATA 2122
Sbjct 2041 GGGCAACAACACCTGCACTGCCCACTGATTGCTTCGCGAAGCATCCGGAAGCCACATA 2100
Query 2123 CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCAATGGTCGACTACCGGTATAG 2182
Sbjct 2101 CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCTGGTCGACTACCGGTATAG 2160
Query 2183 GCTTTGGCAGTATCCTTGTACCATCAATACACCAATATCAAAGTCAGGATGTACGTGGG 2242
Sbjct 2161 GCTTTGGCAGTATCCTTGTACCATCAACTACACCAATATTTAAAAATCAGGATGTACGTGGG 2220
Query 2243 AGGGGTGCGAGCACAGGCTGGAAGCGGCGCTGCAACTGACGCGGGGCGAACGCTGTGATCT 2302
Sbjct 2221 AGGGGTGCAACACAGGCTGGAAGCTGCCTGCAACTGACGCGGGGCGAACGTTGCGATCT 2280
Query 2303 GGAAGACAGGACAGGTCCGAGCTCAGCCGCTTGTCTGCTGTCACACACAGTGGCAGGT 2362
Sbjct 2281 GGAAGACAGGACAGGTCCGAGCTCAGCCGCTTACTGCTGACCATACACAGTGGCAGGT 2340
Query 2363 CTCTCCGTGTTCTTTCACGACCCTGCGAGCCTTGTCCACGGGCTCATCCACCTCCACCA 2420
Sbjct 2341 CTCTCCGTGTTCTTTCACAACCTACCAGCCTTGTCCACGGGCTCATCCACCTCCACCA 2400
Query 2423 GAACATTGTGGAGCTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTGGGCCAT 2482
Sbjct 2401 GAACATTGTGGAGCTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTGGGCCAT 2460
Query 2483 TAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGCAGACGCGCGCTGCTCCTG 2542
Sbjct 2461 TAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGCAGACGCGCGCTGCTCCTG 2520
Query 2543 CTGTGGATGATGTTACTCATATCCCAAGCGGAGCGGCTTTGGAGAACCTCGTAATACT 2602
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Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGCGCGCTTTGGAGAACCCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCTCGCCGGGACGACACGGTCTTGTGCTCTCTCGTGTCTCTCTGCTT	2662
Sbjct	2581	TAATGCAGCATCCTCGCCGGGACGACACGGTCTTGTATCTCTCTCGTGTCTCTCTGCTT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCGGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TGCAATGGTATTGAAGGGTAAGTGGGTGCCGGAGCGGTCTACACCTTCTACGGGATGTG	2700
Query	2723	GCCTCTCTCTCTGCTCTCTGCTGGCGTTGCCTCAGCGGGCATAACGACTGGACACGGAGGT	2782
Sbjct	2701	GCCTCTCTCTCTGCTCTCTGCTGGCGTTGCCAGCGGGCGTACGCGCTGGACACGGAGGT	2760
Query	2783	GGCCGCGCTCGTGTGGCGCGTGTCTTGTGCGGGTTAAATGGCGCTGACTCTGTGCCATA	2842
Sbjct	2761	GGCCGCGCTCGTGTGGCGGTGTGTCTCTGTCGGGTGATGGCGCTGACTCTGTGACCATTA	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCAITGGTGGCTTCAGTATTTCCTGACCAGAGTAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCTTGTGGTGGCTTCAGTATTTCCTGACCAGAGTGA	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTTCAACGCTCCGGGGGGCGCGATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCGCCCTCAACGCTCCGAGGGGGCGCGACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCTGGTATTTGACATCACCAACTACTCCTGG	3021
Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAATGTCTGTGG	2999
Query	3022	CAATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCTACTTCGTGC	3081
Sbjct	3000	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	CGGTTCAGGCCCTTCTCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGAGGTCATTAC	3140
Sbjct	3060	CGGTTCAGGCCCTTCTCGGTTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAAATGGTCATCAATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201	ACCCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCTCTTCGGGACTGGGCGCACAAACGGCTTGCAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTGCTCTTCTCCCGAATGGAGACCAAGCTCATACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	3239	GTGCTCTTCTCCCAATGGAGACCAAGCTCATACGTGGGGGGCAGATACCGCCGCGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCGCGTAGGGGGCAGGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCCGTGTTCCGCGCGAGGGGGCAGGAGATACTGCTCGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTTGCTGGCGCCCATACGGCGTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGTGGAGGTTGCTGGCGCCCATACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCTCTTAGGGTGATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACGAGGGGCTCTTAGGGTGATAATCACCAGCCTTACTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCTGGCAACGTGC	3560
Sbjct	3479	CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCAAACCTTCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGGTACACC	3598
Query	3621	AAGGGTCTCTGTATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCTCTGTATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGCTCCTCGGACCTTACCTGGTC	3740

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Sbjct 3659 CCGCAAGGTAGCCGCTCATTGACACCCGTGCATTTCGGGCTCCTCGGACCTTTACCTGGTC 3718
Query 3741 ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCAGGTGATAGCAGGGGTAGCCTGCTT 3800
Sbjct 3719 ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCAGGTGATAGCAGGGGCAGCCTGCTG 3778
Query 3801 TCGCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCGCGG 3860
Sbjct 3779 TCGCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCGCGG 3838
Query 3861 GGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG 3920
Sbjct 3839 GGGCAGCCGTTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG 3898
Query 3921 GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC 3980
Sbjct 3899 GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCGGTTTCACGGATAAC 3958
Query 3981 TCCTCTCCACCAGCAGTGCCTCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCACCGGCG 4040
Sbjct 3959 TCCTCTCCACCAGTAGTGCCTCCAGAGCTTCCAGGTGGCTACCTCCATGCTCCACAGGC 4018
Query 4041 AGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTG 4100
Sbjct 4019 AGCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA 4078
Query 4101 CTCACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCATGGG 4160
Sbjct 4079 CTCACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG 4138
Query 4161 GTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCCTGGCAGCCCCATCAGTAC 4220
Sbjct 4139 ATCGATCCTAACATCAGGACCGGGGTGAGAACAAATTACCCTGGCAGCCCCATCAGTAC 4198
Query 4221 TCACCTACGGCAAGTTCCTTGCCGACGCGGGTGCTCAGGAGGTGCTTATGACATAATA 4280
Sbjct 4199 TCACCTACGGCAAGTTCCTTGCCGACGCGGGTGCTCGGGGGGCGCTTATGACATAATA 4258
Query 4281 ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACGTGCTT 4340
Sbjct 4259 ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACGTGCTT 4318
Query 4341 GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC 4400
Sbjct 4319 GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACCAGCCCTCCGGGC 4378
Query 4401 TCCGTCACTGTGTCCCATCTAACATCGAGGAGTGTCTGTCTGCCACCACCGGAGAGATC 4460
Sbjct 4379 TCCGTCACTGTGTCCCATCTCCAAATCGAGGAGTGTCTGTCTGCCACCACCGGAGAGATC 4438
Query 4461 CCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC 4520
Sbjct 4439 CCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAGACATCTCATCTTC 4498
Query 4521 TGCCACTCAAGAAGAAGTGGCAGGAGCTCGCCCGGAAGCTGGTCGCATTGGGCATCAAT 4580
Sbjct 4499 TGTCAATCAAGAAGAAGTGGCAGGAACTCGCCGCAAGAGCTGGTCGCATTGGGCATCAAT 4558
Query 4581 GCGGTGGCTACTACCGCGGTCTTGACGTGTCTGTATCCCGACAGCGGCGATGTTGTC 4640
Sbjct 4559 GCGGTGGCTACTACCGCGGTCTTGACGTGTCTGTATCCCGACAGCGGCGATGTTGTC 4618
Query 4641 GTGCTGTGACACCATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC 4700
Sbjct 4619 GTGCTGGCAACCATGCTCTCATGACCGCTATACCGGCGACTTCGACTCTGGTGATAGAC 4678
Query 4701 TGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCCTTACCCCTACCTTTACCATAG 4760
Sbjct 4679 TGCAATACGTGTGTCAACCGACAGTCGATTTACGCCCTTACCCCTACCTTCACCATAG 4738
Query 4761 ACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG 4820
Sbjct 4739 ACAATCAGCTCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGGCAGGACTGGCAGG 4798
Query 4821 GGGAAAGCAGGCATCTATAGATTTGTGGACCGGGGGAGCGCCCTTCGGCATGTTTCGAC 4880
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Sbjct	4799	GGGAAGCCAGGCATCTACAGATTGTGGCACC	CGGGGAGCGCCCTCCGGCATGTTCGAC	4858
Query	4881	TCGTCGGTCTCTGTGAGTGCTATGACGCGGCTGTGCTTGGTATGAGCTCACGCCCGCC		4940
Sbjct	4859	TCGTCGGTCTCTGTGAGTGCTATGACGAGCTGTGCTTGGTATGAGCTCACGCCCGCC		4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCGCTGTGCCAGGAC		5000
Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCGCTGTGCCAGGAC		4978
Query	5001	CATCTTGAATTTTGGGAGGCGCTCTTTACGGGCCTCACTCATATAGATGCCACCTTTT		5060
Sbjct	4979	CATCTTGAATTTTGGGAGGCGCTCTTTACAGGCCTCACTCATATAGATGCCACCTTTCTA		5038
Query	5061	TCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCACCGTG		5120
Sbjct	5039	TCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCACCGTG		5098
Query	5121	TGCGTAGGGCTCAAGCCCTCCCCCATCGTGGGACAGATGTGGAAGTGTITGATCCGC		5180
Sbjct	5099	TGCGTAGGGCTCAAGCCCTCCCCCATCGTGGGACAGATGTGGAAGTGTITGATTCGC		5158
Query	5181	CTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAA		5240
Sbjct	5159	CTCAAGCCACCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAA		5218
Query	5241	GAAGTCAACCTGACGCACCCAAATACCAAATACATCATGACATGCATGTCGGCCGACCTG		5300
Sbjct	5219	GAATCAACCTGACGCACCCAGTCACCAAATACATCATGACATGCATGTCGGCCGACCTG		5278
Query	5301	GAGGTCGTACAGGACACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTTGGCCGCGTAT		5360
Sbjct	5279	GAGGTCGTACAGGACACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTTGGCCGCGTAT		5338
Query	5361	TGCGTGTCAACAGGCTGCGTGGTCTATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGA		5420
Sbjct	5339	TGCGTGTCAACAGGCTGCGTGGTCTATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGA		5398
Query	5421	ATTATACCTGACAGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA		5479
Sbjct	5399	ATCATACCTGACAGGGAAGTCTCTACCGAG-AGTTCGATGAGATGGAAGAGTGCTCTCA		5457
Query	5480	GCACCTACCGTACATCGAGCAAGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT		5539
Sbjct	5458	GCACCTACCGTACATCGAGCAAGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCT		5517
Query	5540	CGGCTCTCTGCAGACCGCGTCCCGCCATGCAGAGGTATACCCCTGCTGTCCAGACAA		5599
Sbjct	5518	CGGCTCTCTGCAGACCGCGTCCCGTACGGCAGAGGTATCGCCCTGCTGTCCAGACAA		5577
Query	5600	CTGGCAGAAACTCGAGGCTCTTTGGGCGAAGCACATGTGGAATTCATCAGTGGGATACA		5659
Sbjct	5578	CTGGCAAAACTCGAGACCTCTTGGGCGAAGCATATGTGGAATTCATCAGTGGGATACA		5637
Query	5660	ATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGCGTTT		5719
Sbjct	5638	ATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGCGTTT		5697
Query	5720	TACAGCTGCCGTACACAGCCCACTAACCACTGGCCAAACCTTCTCTTCAACATATTggg		5779
Sbjct	5698	TACAGCTGCGTGCACAGCCCACTAACCACTAGCCAAACCTTCTCTTCAACATATTGG		5757
Query	5780	ggggTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCGCGTACTGCCCTTGTGGGTGCTGG		5839
Sbjct	5758	GGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCGCGTACTGCCCTTGTGGGTGCTGG		5817
Query	5840	CCTAGCTGGCGCCGCATCGGCAGCGTTGGACTGGGGAAGTCTCTGTTGACATTCTTGC		5899
Sbjct	5818	CTTAGCTGGCGCCGCATCGGCAGTGTGGACTGGGGAAGTCTCTATAGACATCTCTGC		5877
Query	5900	AGGGTATGGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT		5959
Sbjct	5878	AGGGTATGGCGGGCGTGGCGGGAGCTCTTGTGACATTCAAGATCATGAGCGGTGAGGT		5937
Query	5960	CCCTTCCAGCGGAGACTGGTCAATCTGCTGCCCGCATCTCTCGCCTGGAGCCCTTGT		6019

Sbjct	5938	CCCCCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCTCTCGCCCGGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGTCAGCAATACTGCGCCGGCAGCTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGAAACCATGTTTCCCCCAGCA	6139
Sbjct	6058	GCAATGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGAAACCATGTTTCCCCCAGCA	6117
Query	6140	CTACGTGCGCGAGAGCGATGACGCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCGCGAGAGCGATGACGCTGCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGACCATCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCAAGTGGATAAGCTCGGAGTGACCATCCATGCTC	6237
Query	6260	CGGTTCTTGGCTAAGGGACATCTGGGACTGGATAATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	CGGTTCTTGGCTAAGGGACATCTGGGACTGGATAATGCGAGGTGCTGAGCGACTTTAAGAC	6297
Query	6320	CTGGCTGAAGGCCAAGCTCATGCGCACAACCTGCCTGGGATTCCCTTTGTGCTCTGCCAGCG	6379
Sbjct	6298	CTGGCTGAAGGCCAAGCTCATGCGCACAAGCTGCCTGGGATTCCCTTTGTGCTCTGCCAGCG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	CGGGTATAGGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCA	6476
Query	6499	GGAAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCACGGGCGCCTGTACTCCCC	6558
Sbjct	6477	GGAAACATGTGGAGTGGGACCTTCCCCATTAAAGCCTACACCACGGGCGCCTGTACTCCCC	6536
Query	6559	TTCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGTGTCTGACAGGAATACTGGAGA	6618
Sbjct	6537	TTCTGCGCCGAACATAACGTTTCGCGCTATGGAGGTGTCTGACAGGAATACTGGAGA	6596
Query	6619	TAAGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGACGGGTGCGCCTACACAGG	6737
Sbjct	6656	CCGTGCCAGGTCCCATCGCCGAATTTTTCACAGAATTGGACGGGTGCGCCTACATAGG	6715
Query	6738	TTTGGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6797
Sbjct	6716	TTTGGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6775
Query	6798	GAGTACCCGGTGGGTGCGCAATTACCTTGCAGGCCGAACCCGACGTAGCCGTTGTGAGC	6857
Sbjct	6776	GAATACCCGGTAGGGTTCGCAATTACCTTGCAGGCCGAACCCGACGTAGCCGTTGTGAGC	6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCGGGGAGAAGGTGGCGAGA	6917
Sbjct	6836	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCGGGGAGAAGGTGGCGAG-	6894
Query	6918	GGG-TACCCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976
Sbjct	6895	GGGATACCCCCCTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCGCTCCATCTCTCAA	6954
Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955	GGCAACTTGCACCGCTAACCATGACTCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT	7014
Query	7037	GTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015	ATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7074
Query	7097	TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGAGGCTCCCGTACCTGC	7156

Sbjct	7075	TCGTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157	AGAAATTCGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCGCTGGGCGCGGCCGGA	7216
Sbjct	7135	AGAAATTCGCGGAAGTCTCGGAGATTGCGCCAGGCCCTGCCGCTTGGGCGCGGCCGGA	7194
Query	7217	CTACAACCCCCGCTAGTAGAGACGTGGA AAAAGCCTGACTACGAACCACTGTGGTCCA	7276
Sbjct	7195	CTATAACCCCCGCTAGTGGAGACGTGGA AAAAGCCGACTACGAACCACTGTGGTCCA	7254
Query	7277	TGGCTGCCCGCTACCACCTCCACGTCCTCTGCTGCCCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TGGCTGTCCGCTTCCACCTCCAAAGTCCCTCTGCTGCCCTCGGAAAGAGCGGAC	7314
Query	7337	GGTGGTCTCTACCGAATCAACCTATCTACTGCTTGGCCGAGCTTGCACCAAAAGTTT	7396
Sbjct	7315	GGTGGTCTCTCACTGAATCAACCTATCTACTGCTTGGCCGAGCTCGCCACAGAGCTT	7374
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAACGACAACATCCTCTGAGCCCGC	7456
Sbjct	7375	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAACGACAACATCCTCTGAGCCCGC	7434
Query	7457	CCCTTCTGGCTGccccccGACTCCGACGTTGAGTCCATTCTTCCATGccccccTGGGA	7516
Sbjct	7435	CCCTTCTGGCTGCCCCCGGACTCCGACGCTGAGTCCATTCTCTCCATGCCCCCGCTGGA	7494
Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGGTCAGTAGTGGGGC	7576
Sbjct	7495	GGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCATGGTCAACGGTCAGTAGTGGGC	7554
Query	7577	GCACACGGAAGATGTCGTGTCTGCTCAATGCTCTTATTCCTGGACAGGCGCACTCGTCAC	7636
Sbjct	7555	CAACGCGGAGGATGTCGTGTCTGCTCAATGCTTACTCTTGGACAGGCGCACTCGTCAC	7614
Query	7637	CCCGTGCCTGCGGAAGAAACAAAACCTGCCATCAACGCACTGAGCAACTCGTTGCTACG	7696
Sbjct	7615	CCCGTGCCTGCGGAAGAAACAGAAACCTGCCATCAATGCACTAAGCAACTCGTTGCTACG	7674
Query	7697	CCATCACAAATCTGGTGATTCCACCACCTTCACGCAAGTCTTGCCAAAGGCAGAGAAAGT	7756
Sbjct	7675	TCACCACAATTTGGTGATTCCACCACCTTCACGCAAGTCTTGCCAAAGGCAGAGAAAGT	7734
Query	7757	CACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735	CACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTACTCAAGGAGGTAA	7794
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACGCTGAC	7876
Sbjct	7795	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACGCTGAC	7854
Query	7877	GCCTCCACATTACGCAAAATCCAAGTTTGGCTATGGGGCAAAAAGACGTCGTTGCCATGC	7936
Sbjct	7855	GCCTCCACACTACGCAAAATCCAAGTTTGGTTATGGGGCAAAAAGACGTCGTTGCCATGC	7914
Query	7937	CAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGAGCTTCTGGAAGACAGTGTAAC	7996
Sbjct	7915	CAGAAAGGCCGTAAACCCACATCAACTCCGTGTGGAAGAGCTTCTGGAAGACAAATGTAAC	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTACGCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTACGCTGAGAAGGG	8034
Query	8057	GGGTGCTAAGCCAGCTCGTCTCATCGTGTTCGCCGCTGGGCGTGCCTGTGCGGAGAA	8116
Sbjct	8035	GGGTGCTAAGCCAGCTCGTCTCATCGTGTTCGCCGATCTGGGCGTGCCTGTGCGGAGAA	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095	GATGGCTTTGTACGACGTGGTTA-CAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8153
Query	8176	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGAAGCGTGAAGTCCAAGA	8235
Sbjct	8154	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGAAGCGTGAAGTCCAAGA	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295

Sbjct	8214	AAACCCCAATGGGGTTCGATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCG	8273
Query	8296	ACATCCGTACGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCAAGCCCGGTGG	8355
Sbjct	8274	ACATCCGTACGAGGAGGCAATCTACCAATGTTGTGACCTGCAGCCCAAGCCCGGTGG	8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
Sbjct	8334	CCATCAAGTCCCTCACCGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8393
Query	8416	AAAAGTGCAGGTACCGCAGGTGCCGCGGAGCGCGTACTGACAACCTAGCTGTGGTAACA	8475
Sbjct	8394	AGAAGTGCAGGTATCGCAGGTGCCGCGGAGCGCGTACTGACAACCTAGCTGTGGTAACA	8453
Query	8476	CCCTCACTTGCTACATCAAGGCCCGGGCAGGCTGTGAGCCGAGGGCTCCAGGACTGCA	8535
Sbjct	8454	CCCTCACTTGCTACATCAAGGCCCGGGCAGGCTGTGAGCCGAGGGCTCCAGGACTGCA	8513
Query	8536	CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCAGGGGTCCAGGAGG	8595
Sbjct	8514	CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCAGGGGTCCAGGAGG	8573
Query	8596	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCG	8655
Sbjct	8574	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCG	8633
Query	8656	ACCCCCCAACACAGAAATACGACTTGGAGCTTATAACATCATGCTCCTCCAAAGTGTCAG	8715
Sbjct	8634	ACCCCCCAACACAGAAATACGACTTGGAGCTCATAACATCATGCTCCTCCAAAGTGTCAG	8693
Query	8716	TCGCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTACCCCTACAACCCCC	8775
Sbjct	8694	TCGCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTACCCCTACAACCCCC	8753
Query	8776	TCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCAACA	8835
Sbjct	8754	TCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCAACA	8813
Query	8836	TAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCAATTTCTTTAGCG	8895
Sbjct	8814	TAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCAATTTCTTTAGCG	8873
Query	8896	TCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTACGGAGCCTGCT	8955
Sbjct	8874	TCCTTATAGCCAGGGACAGCTTGAACAGGCTCTGATGCGAGATCTACGGGCTGCT	8933
Query	8956	ACTCCATAGAACCACTGGATCTACCTCCAATCAATCAAAGACTCCATGGCCTCAGCGCAT	9015
Sbjct	8934	ACTCCATAGAACCACTTGATCTACCTCCAATCAATCAAAGACTCCATGGCCTCAGCGCAT	8993
Query	9016	TTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAAC	9075
Sbjct	8994	TTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCCGCATGCCTCAGAAAAC	9053
Query	9076	TTGGGGTCCCGCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTC	9135
Sbjct	9054	TTGGGGTACCGCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTC	9113
Query	9136	GTCTCAGAGGAGGAGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA	9195
Sbjct	9114	TGGCCAGAGGAGGAGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA	9173
Query	9196	CAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTGGTTGTTCA	9255
Sbjct	9174	CAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCAGCTGGACTTGTGCGGCTGGTTCA	9233
Query	9256	CGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCGCTGGT	9315
Sbjct	9234	CGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCGCTGGA	9293
Query	9316	CTGTGTTTTGCGCTACTCTGCTCGTGCAGGGGTAGGCATCTACCTCTCTCCCAACCGAT	9375
Sbjct	9294	CTGTGTTTTGCGCTACTCTGCTTGTGTCAGGGGTAGGCATCTACCTCTCTCCCAACCGAT	9353
Query	9376	GAAGGTTGGGGTAAACACTCCGGCCT	9401

Sbjct 9354 GAAGGTTGGGGTAAACACTCCGGCCT 9379

>gb|AR166930.1|AR166930 Sequence 1 from patent US 6284249
Length=9379

Score = 1.516e+04 bits (8209), Expect = 0.0
Identities = 8996/9386 (95%), Gaps = 14/9386 (0%)
Strand=Plus/Plus

Query	23	CACTCCACCATGAATCACTCCCCTGTGAGGAAGTACTGTCTTCACGCAGAAAGCGCTAG	82
Sbjct	1	CACTCCACCATGAATCACTCCCCTGTGAGGAAGTACTGTCTTCACGCAGAAAGCGCTAG	60
Query	83	CCATGGCGTTAGTATGAGTGTGTCGAGCCTCCAGGAAGGCGGTCGCCGGGAGAGCCATA	142
Sbjct	61	CCATGGCGTTAGTATGAGTGTGTCGAGCCTCCAGGACCGCCCTCCGCCGGGAGAGCCATA	120
Query	143	GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCTCTTCTTGGA	202
Sbjct	121	GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCTCTTCTTGGA	180
Query	203	TAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCCGAAGACTGCTAGCCGAGTAGT	262
Sbjct	181	TCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCCGAAGACTGCTAGCCGAGTAGT	240
Query	263	GTTGGGTGCGGAAAGGCCCTTGTTGTTACTGCCTGATAGGGTGCTTGCAGAGTGCCCGGGAG	322
Sbjct	241	GTTGGGTGCGGAAAGGCCCTTGTTGTTACTGCCTGATAGGGTGCTTGCAGAGTGCCCGGGAG	300
Query	323	GTCTCGTAGACCGGTGCACCATGAGCAGCAATCTTAAACCTCAAAGAAAAACCAACGTAA	382
Sbjct	301	GTCTCGTAGACCGGTGCACCATGAGCAGCAATCTTAAACCTCAAAGAAAAACCAACGTAA	360
Query	383	CACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTGCGCGTCAGATCGTTGGTGGAGT	442
Sbjct	361	CACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTGCGCGTCAGATCGTTGGTGGAGT	420
Query	443	TTACTTGTTCGCCGCGAGGGCCCTAGATTGGGTGTGCGCGCAGCAGGAAGACTTCCGA	502
Sbjct	421	TTACTTGTTCGCCGCGAGGGCCCTAGATTGGGTGTGCGCGCAGCAGGAAGACTTCCGA	480
Query	503	GCGGTCGCAACCTCGAGGTAGACGTACGCTATCCCCAAGGCACGTGCGCCGAGGGCAG	562
Sbjct	481	GCGGTCGCAACCTCGAGGTAGACGTACGCTATCCCCAAGGCACGTGCGCCGAGGGCAG	540
Query	563	GACCTGGGCTCAGCCCGGGTACCCTTGCGCCCTCTATGGCAATGAGGGTTGCGGGTGGG	622
Sbjct	541	GACCTGGGCTCAGCCCGGGTACCCTTGCGCCCTCTATGGCAATGAGGGCTGCGGGTGGG	600
Query	623	GGGATGGCTCCTGCTCCTCCCGTGGCTCTCGGCCCTAGTGGGGCCCCACAGACCCCGGG	682
Sbjct	601	GGGATGGCTCCTGCTCCTCCCGTGGCTCTCGGCCCTAGTGGGGCCCCACAGACCCCGGG	660
Query	683	TAGGTCGCGCAATTTGGGTAAGGTATCGATACCCCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661	TAGGTCGCGCAATTTGGGTAAGGTATCGATACCCCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721	GGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGG	780
Query	803	CGTCCGGGTCTGGAAGACGCGTGAACATATGCAACAGGGGAACCTTCTGGTGTGCTTT	862
Sbjct	781	CGTCCGGGTCTGGAAGACGCGTGAACATATGCAACAGGGGAACCTTCTGGTGTGCTTT	840
Query	863	CTCTATCTTCTTCTTGGCCCTGCTCTCTTGGCTGACTGTGCCCGCTTACGCTACCAAGT	922
Sbjct	841	CTCTATCTTCTTCTTGGCCCTGCTCTCTTGGCTGACTGTGCCCGCTTACGCTACCAAGT	900
Query	923	GCGCAATTCCTCGGGGCTTTACCATGTACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAATTCACGGGGCTTTACCATGTACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCGGATGCCATCTGCACTCCGGGGTGTGTCCTTTCGCTTCGCGAGGGTAA	1042

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Sbjct 961 CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGCCTTGCCTTCGTGAGGGCAA 1020
Query 1043 CGCCTCGAGTGTGTTGGGTGGCGGTGACCCCAACGTTGGCCACCAGGAGCGCAAACTCCC 1102
Sbjct 1021 CGCCTCGAGTGTGTTGGGTGGCGATGACCCCTACGGTGGCCACCAGGAGTGCAAACTCCC 1080
Query 1103 CACAACGACAGCTTCGACGTCATATCGATCTGCTTGTGCGGAGCGCCACCTCTGCTCGGC 1162
Sbjct 1081 CGCGACGACAGCTTCGACGTCACATCGATCTGCTTGTGCGGAGCGCCACCTCTGCTCGGC 1140
Query 1163 CCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTGTGTTGCTCAACTGTTTACCTTCTC 1222
Sbjct 1141 CCTCTACGTGGGGGACCTATGCGGGTCTGCTTTCTTGTGCGGCAACTGTTTACCTTCTC 1200
Query 1223 TCCCAGGCGCCACTGAGACGACGCAAGACTGCAATTGTTCTATCTATCCCGCCATATAAC 1282
Sbjct 1201 TCCCAGGCGCCACTGAGACGACGCAAGGTTGCAATTGCTTATCTATCTATCCCGCCATATAAC 1260
Query 1283 GGGTCATCGCATGGCATGGGATATGATGATGAACCTGGTCCCTACGGCAGCGTGTGGTGT 1342
Sbjct 1261 GGGTCACCGCATGGCATGGGATATGATGATGAACCTGGTCCCTACGACGGCGTGTGTAAT 1320
Query 1343 AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGACATGATCGCTGGTGTCTACTGGGG 1402
Sbjct 1321 GGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACATGATCGCTGGTGTCTACTGGGG 1380
Query 1403 AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACCTGGGCGAAGGTCCTGGTAGT 1462
Sbjct 1381 AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACCTGGGCGAAGGTCCTGGTAGT 1440
Query 1463 GCTGCTGCTATTTTGGCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAATGCCGGCCG 1522
Sbjct 1441 GCTGCTGCTATTTTGGCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAATGCCGGCCA 1500
Query 1523 CACCACGGCTGGGCTTGTGTGCTCCTTACACACGAGCGCAAGCAGAACATCCAACTGAT 1582
Sbjct 1501 CACTGTGCTGGATTGTGTTAGCCTCCTCGACACGAGCGCAAGCAGAACGTCAGTGAT 1560
Query 1583 CAACACCAACGGCAGTTGGCAGATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA 1642
Sbjct 1561 CAACACCAACGGCAGTTGGCAGCTCAATAGCACGGCCTTGAATGCAATGATAGCCTCAA 1620
Query 1643 CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTAACCTCTCAGGCTGTCTGA 1702
Sbjct 1621 CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCTGA 1680
Query 1703 GAGGTTGGCCAGCTGCCGACGCCITACCGATTTTGCCACGGGCTGGGGTCTATCAGTTA 1762
Sbjct 1681 GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA 1740
Query 1763 TGCCAAACGGAAGCGGGCTCGACGAACGCCCTACTGCTGGCAGTACCCCTCCAAGACCTTG 1822
Sbjct 1741 TGCCAAACGGAAGCGGGCCCGACGAGCGCCCTACTGCTGGCAGTACCCCCAAAACCTTG 1800
Query 1823 TGGCATTTGTCCCGCAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT 1882
Sbjct 1801 CGGTATTGTGCCCGCAAGAGTGTGTGTGGTCCGGTATATTGCTTCACTCCCAGCCCCGT 1860
Query 1883 GGTGGTGGGAACGACCGACAGGTGCGGCGCGCCTACCTACAGCTGGGGTGCAAAATGATAC 1942
Sbjct 1861 GGTGGTGGGAACGACCGACAGGTGCGGCGCGCCTACCTACAGCTGGGGTGCAAAATGATAC 1920
Query 1943 GGAATGCTTCTGCTCCTTAACAACACGAGGCCACCGTGGGCAATTGGTTCCGGTGTACCTG 2002
Sbjct 1921 GGACGTCTCTGCTCCTTAACAATACGAGGCCACCGTGGGCAATTGGTTCCGGTGTACCTG 1980
Query 2003 GATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT 2062
Sbjct 1981 GATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGCCCTCTTGTGTCATCGGAGGGGC 2040
Query 2063 GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACTCCGGAAGCCACATA 2122
Sbjct 2041 GGGCAACAACACCTTGCACTGCCCCACTGATTGCTTCCGCAAGCATCCGGAAGCCACATA 2100
Query 2123 CTCCTGGTGGCGCTCCGGTCCCTGGATTACCCCAAGTGATGGTCGACTACCCGATATAG 2182
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Sbjct	2101	CTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGTGCTGGTCGACTACCCGTATAG	2160
Query	2183	GCTTTGGCACTATCCTTTGTACCATCAATTACACCAATATCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCAATTATCCTTTGTACCATCAACTACACCAATATTTAAATCAGGATGTACGTGGG	2220
Query	2243	AGGGGTGAGACACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTGCAACACAGGCTGGAAGCTGCTTGCAACTGGACGCGGGCGAACGCTGTGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGTCTGTCTCCACCACACAGTGGCAGGT	2362
Sbjct	2281	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGCTGACCACACACAGTGGCAGGT	2340
Query	2363	CCTTCGGTGTCTTTTTCAGCACCTTGCAGCCTTGTCACCCGGCCTCATCCACCTCCACCA	2422
Sbjct	2341	CCTTCGGTGTCTTTTTCACCAACCTTACAGCCTTGTCACCCGGCCTCATCCACCTCCACCA	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTTGTACGGGGTAGGGTCAAGCATCGCGTCTTGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTTGTACGGGGTGGGGTCAAGCATCGCGTCTTGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTGCTTCTCCTGTCTCTTCTGCTTGCAGACGCGCGCTGCTCCTTG	2542
Sbjct	2461	TAAGTGGGAGTACGTGCTTCTCCTGTCTCTTCTGCTTGCAGACGCGCGCTGCTCCTTG	2520
Query	2543	CTTGTTGATGATGTTTACTCATATCCCAAGCGAGGCGCGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTTGTTGATGATGCTACTCATATCCCAAGCGAGGCGCGCTTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCTTGGCCGGGACGCACGGTCTTGTCCTTCTTCGTGTTCTTCTGCTT	2662
Sbjct	2581	TAATGCAGCATCCTTGGCCGGGACGCACGGTCTTGATCTTCTTCGTGTTCTTCTGCTT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TGCGTGGTATTTGAAGGGTAGGTGGGTGCCCGAGCGGTCTACACCTTCTACGGGATGTG	2700
Query	2723	GCCTCTCTCTCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATAACGACTGGACACGGAGGT	2782
Sbjct	2701	GCCTCTCTCTCTGCTCCTGTTGGCGTTGCCACGCGGGCGGTACGCGCTGGACACGGAGGT	2760
Query	2783	GGCCGCGTCGTGTGGCGCGGTGTCTTGTCTGGGTAAATGGCGCTGACTCTGTGCCATA	2842
Sbjct	2761	GGCCGCGTCGTGTGGCGGTGTGTCTCTGTCGGGTGATGGCGCTGACTCTGTGCCATA	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCTTGTGGTGGCTTCAGTATTTTCTGACCAGAGTGA	2880
Query	2903	AGCGCAACTGCAGGTGTGGGTTTCAACGTCCGGGGGGGCGCGATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCAGGTGTGGATTCCCGCCCTCAACGTCCGAGGGGGGCGCGACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCTGGTATTTGACATCACCAAACTACTCCTGG	3021
Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAAATGCTGCTGG	2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGGCTTAAAGTCCCTTACTTCGTGC	3081
Sbjct	3000	CGCTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGGCTTAAAGTACCTTACTTTGTGC	3059
Query	3082	CGGTTCAAGGCCCTTCTCCGATCTCGCGCTAGCGCGGAAGAT-AGCCGGAAGGTCAATTAC	3140
Sbjct	3060	CGGTTCAAGGCCCTTCTCCGATTCTCGCGCTAGCGCGGAAGATGATC-GGAGGCCAATTAC	3118
Query	3141	GTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAAATGGTCATCAATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201	ACCCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCCTCTTCGAGACTGGGCGCACAAACGGCTTGGAGATCTGGCCGTGGCTGTGAGACCA	3238
Query	3261	GTGCTCTTCTCCGAAATGGAGACCAAGCTCATCAGTGGGGGCGAGATACGCCCGGTGC	3320

Sbjct	3239	GTCTGCTTCTCCCAAATGGAGACCAAGCTCATACGTGGGGGGCAGATACCGCCGCGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTCGGG	3358
Query	3381	CCAGCCGACGGGAATGCTCTCCAAGGGGTGGAGGTGTCTGGCGCCCATACGCGGTACGCC	3440
Sbjct	3359	CCAGCCGATGGGAATGCTCTCCAAGGGGTGGAGGTGTCTGGCGCCCATACGCGGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACGAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAAGTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCTTGGCAACGTGC	3560
Sbjct	3479	CAAGTGGAGGGTGAGGTCCAGATTTGTGTCAACTGCTGCCCAAACCTTCTTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTCACCC	3598
Query	3621	AAGGGTCTCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGTGGCCCGCT	3680
Sbjct	3599	AAGGGTCTCTGTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	CCGCAAGGTAGCGCTCATTGACACCTGCATTCGGGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTCTATTCCTGCGCGCGCGGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTCTATTCCTGCGCGCGCGGAGGTGATAGCAGGGGCAGCTGCTG	3778
Query	3801	TCGCCCGGGCCCAATTTCTACTTGAAAGGCTCCTCGGGGGTCCGCTGTGTGCCCGCGG	3860
Sbjct	3779	TCGCCCGGGCCCAATTTCTACTTGAAAGGCTCCTCGGGGGTCCGCTGTGTGCCCGCGG	3838
Query	3861	GGACACGCCGTGGGCTATTACGGGCCCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGCACGCCGTGGGCAATATTAGGGCCCGGTGTGCACCCGTGGAGTGGCTAAGCGGTG	3898
Query	3921	GACTTTATCCCTGTGGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTCACGGATAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGTCCCGCAGAGCTTCCAGGTGGCCACCTGTCATGCTCCACCGGC	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGTCCCGCAGAGCTTCCAGGTGGCTACCTTCCATGCTCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAGGTCGCCGCTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	AGCGGCAAAAGCACCAGGTCGCCGCTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTGTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTGTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAAACAATTACCAGTGGCAGCCCATACGTAC	4220
Sbjct	4139	ATCGATCTCTAATATCAGGACCGGGGTGAGAAACAATTACCAGTGGCAGCCCATACGTAC	4198
Query	4221	TCACCTACGGCAAGTTCCTTGGCCGACGGCGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCACCTACGGCAAGTTCCTTGGCCGACGGCGGTGCTCGGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACGTGCTCT	4340
Sbjct	4259	ATTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACGTGCTCT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGCAGACTGGTGTGTCTGCCACTGTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGCAGACTGGTGTGTCTGCCACCGCACCCCTCCGGGC	4378
Query	4401	TCCGTCACTGTGTCCCATCTAATCATGAGGAGGTGTCTGTGTCCACACCGGAGAGATC	4460

Sbjct	4379	TCCGTCACGTGTGCCCCATCCCAACATCGAGGAGGTGTGCTGTGCCACCACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCCTTTTACGGCAAGGCTATCCCCCTCGAGTAATCAAGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGAAGTGCACGAGCTCGCCCGCAAGCTGGTCGATTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAAGAAGAAGTGCACGAACTCGCCCGCAAGCTGGTCGATTGGGCATCAAT	4558
Query	4581	GCGCTGGGCTACTACCGCGGTCTTGACGTGTCTGTATCCCGACCAAGCGGCGATGTTGTC	4640
Sbjct	4559	GCGTGGGCTACTACCGCGGTCTTGACGTGTCCGTATCCCGACCAAGCGGCGATGTTGTC	4618
Query	4641	GTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4619	GTCGTGGCAACCGATGCCCTCATGACCGCTATACCGGCGACTTCGACTCGGTGATAGAC	4678
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCCTTACCCCTACCTTTACCAATTGAG	4760
Sbjct	4679	TGCAATACGTGTGTCAACCAGACAGTCGATTTACGCCCTTACCCCTACCTTTACCAATTGAG	4738
Query	4761	ACAACCAACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTTGCAGG	4820
Sbjct	4739	ACAATCAACGCTCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGGCAGGACTTGCAGG	4798
Query	4821	GGGAAGCCAGGCATCTATAGATTTTGTGGCACCGGGGGAGCGCCCTCCGGCATGTTTCGAC	4880
Sbjct	4799	GGGAAGCCAGGCATCTACAGATTTTGTGGCACCGGGGGAGCGCCCTCCGGCATGTTTCGAC	4858
Query	4881	TCGTCGGTCCCTGTGTGAGTGCTATGACCGGGGTGTGCTTGGTATGAGCTACGCCCGCC	4940
Sbjct	4859	TCGTCCGTCCCTGTGTGAGTGCTATGACCGAGGCTGTGCTTGGTATGAGCTACGCCCGCC	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGTTCGCGTGTGCCAGGAC	5000
Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGTTCGCGTGTGCCAGGAC	4978
Query	5001	CATCTTGAATTTTGGGAGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTT	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGCGTCTTTACAGGCCTCACTCATATAGATGCCCACTTTT	5038
Query	5061	TCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACCTGGTAGCTACCAAGCACCGTG	5120
Sbjct	5039	TCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACCTGGTAGCTACCAAGCACCGTG	5098
Query	5121	TGCGCTAGGGGTCAAGCCCTCCCCCATCGTGGGACAGATGTGGAAGTGTGTTGATCCG	5180
Sbjct	5099	TGCGCTAGGGGTCAAGCCCTCCCCCATCGTGGGACAGATGTGGAAGTGTGTTGATCCG	5158
Query	5181	CTTAACCCACCCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTAGAAAT	5240
Sbjct	5159	CTCAAGCCACCCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTAGAAAT	5218
Query	5241	GAAGTACCCCTGACGCACCCCAATACCAAATACATCATGACATGTCGCGCCGACCTG	5300
Sbjct	5219	GAAATACCCCTGACGCACCCAGTCACCAAATACATCATGACATGTCGCGCCGACCTG	5278
Query	5301	GAGGTCGTCACGAGCACTGGGTGCTCGTTGGCGGCGTCTGGCTGCTCTGGCCGCGTAT	5360
Sbjct	5279	GAGGTCGTCACGAGCACTGGGTGCTCGTTGGCGGCGTCTGGCTGCTCTGGCCGCGTAT	5338
Query	5361	TGCGTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5420
Sbjct	5339	TGCGTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5398
Query	5421	ATTATACCTGACAGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	ATCATACCTGACAGGGAAGTCTCTACCGAG-AGTTCGATGAGATGGAAGAGTGCTCTCA	5457
Query	5480	GCACCTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	GCACCTACCGTACATCGAGCAAGGGATGATGCTCGCGGAGCAGTTCAAGCAGAAGGCCCT	5517
Query	5540	CGGCTCTCTGACAGCCGCTCCGCCATGCAGAGGTATACCCCTGCTGTGTCAGACCAA	5599

Sbjct	5518	CGGCCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTATCGCCCTGCTGTGCCAGACCAA	5577
Query	5600	CTGGCAGAAACTCGAGGTCCTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACA	5659
Sbjct	5578	CTGGCAGAAACTCGAGACCTTCTGGGCGAAGCATATGTGGAATTCATCAGTGGGATACA	5637
Query	5660	ATACTTGGCGGGGCTGTCAACGCTGCCTGGTAACCCGCCATTGCTCAITGATGCGCTTT	5719
Sbjct	5638	ATACTTGGCGGGGCTGTCAACGCTGCCTGGTAACCCGCCATTGCTCAITGATGCGCTTT	5697
Query	5720	TACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCTCCTCTTCAACATATTggg	5779
Sbjct	5698	TACAGCTGCTGTACCAGCCCACTAACCACTAGCCAAACCTCCTCTTCAACATATTGGG	5757
Query	5780	ggggTGGGTGGCTGCCAGCTCGCCGCCCGGTCGCCCTACTGCTTTTGGGGTGTCTGG	5839
Sbjct	5758	GGGGTGGGTGGCTGCCAGCTCGCCGCCCGGTCGCCCTACTGCTTTTGGGGGCTCTGG	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGGAAGGTCCTCTGGACATCTTTCG	5899
Sbjct	5818	CTTAGCTGGCGCCGCCATCGGCAGTGTGGACTGGGGGAAGGTCCTCATAGACATCTCTGC	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAATCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGCAATCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGTCAGCAATACTGCGCCGGCACGTTGGCCCGGGCAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCACGCA	6139
Sbjct	6058	GCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCACGCA	6117
Query	6140	CTACGTGCCGGAGAGCGAATGACCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGAATGACGTGCGCGCTCACTGCCATACTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGACCACTCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCACTGGATAAGCTCGGAGTGACCACTCCATGCTC	6237
Query	6260	CGGTTCTTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	CGGTTCTTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACATGCCTGGGATTCCCTTTGTGCTCTGCCAGCG	6379
Sbjct	6298	CTGGCTGAAAGCTAAGCTCATGCCACAAGCTGCCTGGGATCCCTTTGTGCTCTGCCAGCG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCAATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	CGGGTATAGGGGGGTCTGGCGAGTG-GACGGCATATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCA	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCATTAACGCCATACACACGGGCCCCCTGTACTCCCC	6558
Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCATTAATGCCATACACACGGGCCCCCTGTACTCCCC	6536
Query	6559	TTCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCTGCGCCGAACATACAGTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596
Query	6619	TAAGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGACGGGTGCGCTACACAGG	6737


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Sbjct 6656 CCGTGCCAGGTCCTACGCGGAATTTTTCACAGAATTGGACGGGGTGCGCTACATAGG 6715
Query 6738 TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAITCAGAGTAGGACTCCAC 6797
Sbjct 6716 TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAITCAGAGTAGGACTCCAC 6775
Query 6798 GAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGAAGCCGAGCTAGCGTGTGGAGC 6857
Sbjct 6776 GAATACCCGGTAGGGTTCGCAATTACCTTGCGAGCCCGAAGCCGAGCTAGCGTGTGGAGC 6835
Query 6858 TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCGGGAGAAGGTGGCGAGA 6917
Sbjct 6836 TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCGGGAGAAGGTGGCGAG- 6894
Query 6918 GGG-TCACCCCTTCTATGGCCAGCTCCTCGGTAGCCAGCTGTCCGCTCCATCTCTCAA 6976
Sbjct 6895 GGGATCACCCCTTCTGTTGGCCAGCTCCTCGGTAGCCAGCTATCCGCTCCATCTCTCAA 6954
Query 6977 GGCACCTTGCACCGCCAACCATGACTCCCTGACGCCAGCTCATAGAGGCTAACCTCCT 7036
Sbjct 6955 GGCACCTTGCACCGCTAACCATGACTCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT 7014
Query 7037 GTGGAGGCAGGAGATGGGCGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT 7096
Sbjct 7015 ATGGAGGCAGGAGATGGGCGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT 7074
Query 7097 TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGCTCCGTAACCTGC 7156
Sbjct 7075 TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGAGCAGCGGGAGATCTCCGTACCCGC 7134
Query 7157 AGAAATCTGCGGAAGTCTCGGAGATTGCCCGGGCCCTGCCGCTCTGGGCGCGGCCGA 7216
Sbjct 7135 AGAAATCTGCGGAAGTCTCGGAGATTGCCCGGGCCCTGCCGCTTGGGCGCGGCCGA 7194
Query 7217 CTACAAACCCCGCTAGTAGAGACGTGGAAGGAGCTGACTACGAAACACCTGTGGTCCA 7276
Sbjct 7195 CTATAACCCCGCTAGTAGAGACGTGGAAGGAGCTGACTACGAAACACCTGTGGTCCA 7254
Query 7277 TGGCTGCCCGCTACCACTCCACGCTCCCTCCTGTGCTCCGCTCGGAAAAAGCGTAC 7336
Sbjct 7255 TGGCTGTCCGCTCCACTCCAAAGTCCCTCCTGTGCTCCGCTCGGAAAGAGCGGAC 7314
Query 7337 GGTGGTCTCACCGAATCAACCTATCTACTGCTTGGCCGAGCTTGCACCAAAAGTTT 7396
Sbjct 7315 GGTGGTCTCAGTGAATCAACCTATCTACTGCTTGGCCGAGCTCGCCACAGAGCTT 7374
Query 7397 TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCG 7456
Sbjct 7375 TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCG 7434
Query 7457 CCGTCTGGCTGCGGCGGAGTCCGACGTTGAGTCCATATTCTTCCATGCGGCGCGTGA 7516
Sbjct 7435 CCGTCTGGCTGCGGCGGAGTCCGACGCTGAGTCCATATTCTTCCATGCGGCGCGTGA 7494
Query 7517 GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGGTCAGTAGTGGGC 7576
Sbjct 7495 GGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCATGGTCACCGGTCAGTAGTGGGC 7554
Query 7577 CGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTTGACAGGCGCACTGCTCAC 7636
Sbjct 7555 CAACGCGGAGGATGTCGTGTGCTGCTCAATGCTTATTCTTGACAGGCGCACTGCTCAC 7614
Query 7637 CCGTGGCTGCGGCGGAGAACAAAACTAGCCATCAAGCACTGAGCACTCGTGTGCTAGC 7696
Sbjct 7615 CCGTGGCTGCGGCGGAGAACAAAACTAGCCATCAAGCACTGAGCACTCGTGTGCTAGC 7674
Query 7697 CCATCACAATCTGGTGATTCCACCACTTCACGCACTGCTTGCACAAAGGCAAGAAAGT 7756
Sbjct 7675 TCACCACAATCTGGTGATTCCACCACTTCACGCACTGCTTGCACAAAGGCAAGAAAGT 7734
Query 7757 CACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA 7816
Sbjct 7735 CACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA 7794
Query 7817 AGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAAGAGGAAGCTTGCAGCTGAC 7876
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Sbjct	7795	AGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTCGAGCCTGAC	7854
Query	7877	GGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGGAAAAGACGTCCTGTGCCATGC	7936
Sbjct	7855	GGCCCCACACTACGCCAAATCCAAGTTTGGTTATGGGGGAAAAGACGTCCTGTGCCATGC	7914
Query	7937	CAGAAAGGCGGTAGCCACATCAACTCCGTGTGGAAGACCTTCTGGAAGACAGTGTAAAC	7996
Sbjct	7915	CAGAAAGGCGGTAAACCACATCAACTCCGTGTGGAAGACCTTCTGGAAGACAAATGTAAAC	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTACGCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTACGCTGAGAAGGG	8034
Query	8057	GGGTCGTAAGCCAGCTCGTCTCATCTGTTCCCGACCTGGGCGTGCCTGTGCGAGAA	8116
Sbjct	8035	GGGTCGTAAGCCAGCTCGTCTCATCTGTTCCCGACTGGGCGTGCCTGTGCGAGAAA	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095	GATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8153
Query	8176	GATTCCAATACTACCAGGACAGCGGGTTGAATTCCCTGTGCAAGCGTGAAGTCCAAGA	8235
Sbjct	8154	GATTCCAATACTACCAGGACAGCGGGTTGAATTCCCTGTGCAAGCGTGAAGTCCAAGA	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214	AAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCG	8273
Query	8296	ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTTGACCCCCAAGCCCGCTGG	8355
Sbjct	8274	ACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGACCTTGACCCCCAAGCCCGCTGG	8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
Sbjct	8334	CCATCAAGTCCCTCACCGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8393
Query	8416	AAAAGTGC GGCTACCGCAGGTGCCGCGCAGCGCGTACTGACAACCTAGCTGTGGTAACA	8475
Sbjct	8394	AGAAGTGC GGCTATCGCAGGTGCCGCGCAGCGCGTACTGACAACCTAGCTGTGGTAACA	8453
Query	8476	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCCGAGGGCTCCAGGACTGCA	8535
Sbjct	8454	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCCGAGGGCTCCAGGACTGCA	8513
Query	8536	CCATGCTCGTGTGGCGACGACTTAGTCTGTTATCTGTGAAAGTCGGGGGTCCAGGAGG	8595
Sbjct	8514	CCATGCTCGTGTGGCGACGACTTAGTCTGTTATCTGTGAAAGTCGGGGGTCCAGGAGG	8573
Query	8596	ACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCG	8655
Sbjct	8574	ACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCGCCCCCTGGGG	8633
Query	8656	ACCCCAACAACAGAAATACGACTTGAGGCTTATAACATCATGCTCCTCCAACGTGTGAG	8715
Sbjct	8634	ACCCCAACAACAGAAATACGACTTGAGGCTTATAACATCATGCTCCTCCAACGTGTGAG	8693
Query	8716	TCGCCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCGGTGACCTACAACCCCC	8775
Sbjct	8694	TCGCCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCGGTGACCTACAACCCCC	8753
Query	8776	TCGCGAGAGCCGCGTGGGAGACGCAAGACACACTCCAGTCAATTCCTGGGTAGGCAACA	8835
Sbjct	8754	TCGCGAGAGCTGCGTGGGAGACGCAAGACACACTCCAGTCAATTCCTGGGTAGGCAACA	8813
Query	8836	TAATCATGTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCAATTTCTTTAGCG	8895
Sbjct	8814	TAATCATGTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCAATTTCTTTAGCG	8873
Query	8896	TCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTACGGAGCCTGCT	8955
Sbjct	8874	TCCTTATAGCCAGGGACAGCTTGAACAGGCTCGATTCGGAGATCTACGGGCTGCT	8933
Query	8956	ACTCCATAGAACCACTGGATCTACCTCCAATCAATCAAGACTCCATGGCCTCAGCGCAT	9015

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Sbjct  8934  ACTCCATAGAACCACTTGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT  8993
Query   9016  TTCTACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGATGCCTCAGAAAAAC  9075
Sbjct  8994  TTCTACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCCGATGCCTCAGAAAAAC  9053
Query   9076  TTGGGGTCCC GCCCTTTCGCGAGCTTGGAGACACCGGGCCCGGAGCGTTCGCGCTAGGCTTC  9135
Sbjct  9054  TTGGGGTACC GCCCTTTCGCGAGCTTGGAGACACCGGGCCCGGAGCGTTCGCGCTAGGCTTC  9113
Query   9136  TGTCAGAGGAGGAGGCGGGTGCCATAITGGCAAGTACCTCTTCAACTGGGCGAGTAAGAA  9195
Sbjct  9114  TGCGCAGAGGAGGAGGCGGGTGCCATAITGGCAAGTACCTCTTCAACTGGGCGAGTAAGAA  9173
Query   9196  CAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCGGTGTGTTCA  9255
Sbjct  9174  CAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCAGCTGGACTTGTCCGGTGTGTTCA  9233
Query   9256  CGGCTGGCTACAGCGGGGGAGACATTATACAGCGTGTCTCATGCCCGGCCCGCTGGT  9315
Sbjct  9234  CGGCTGGCTACAGCGGGGGAGACATTATACAGCGTGTCTCATGCCCGGCCCGCTGGGA  9293
Query   9316  TCTGTTTTTGCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCAACCGAT  9375
Sbjct  9294  TCTGTTTTTGCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCAACCGAT  9353
Query   9376  GAAGGTTGGGGTAAACACTCCGGCCT  9401
Sbjct  9354  GAAGGTTGGGGTAAACACTCCGGCCT  9379

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>dbj|DI039725.1| COMBINATIONS OF HEPATITIS C VIRUS (HCV) ANTIGENS FOR USE IN IMMUNOASSAYS FOR ANTI-HCV ANTIBODIES
Length=9401

Score = 1.514e+04 bits (8199), Expect = 0.0
Identities = 9000/9408 (95%), Gaps = 14/9408 (0%)
Strand=Plus/Plus

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Query    1  GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTCTGTGAGGAACACTGT  60
Sbjct    1  GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTCTGTGAGGAACACTGT  60
Query   61  TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCGCTCCAGGA  120
Sbjct   61  TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCGCTCCAGGA  120
Query   121  ccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG  180
Sbjct  121  CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG  180
Query   181  GACGACCGGGTCTTTCTTGATATAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC  240
Sbjct  181  GACGACCGGGTCTTTCTTGATCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC  240
Query   241  GCAAGACTGTAGCCGAGTAGTGTTGGGTGCGGAAAGGCCCTGTGGTACTGCCTGATAGG  300
Sbjct  241  GCAAGACTGTAGCCGAGTAGTGTTGGGTGCGGAAAGGCCCTGTGGTACTGCCTGATAGG  300
Query   301  GTGCTTGCAGAGTGCCCGGGAGGTCCTGTAGACCGGTGCACCATGAGCAGCAATCCTAAAC  360
Sbjct  301  GTGCTTGCAGAGTGCCCGGGAGGTCCTGTAGACCGGTGCACCATGAGCAGCAATCCTAAAC  360
Query   361  CTCAAAGAAAAACAAACGTAACACCAACCGTCGCGCCACAGGACGTCAAGTTCGGGGTG  420
Sbjct  361  CTCAAARAAAAAMCAACGTAACACCAACCGTCGCGCCACAGGACGTCAAGTTCGGGGTG  420
Query   421  GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTG  480
Sbjct  421  GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTG  480
Query   481  GCGGACGAGGAAGACTTCCGAGCGGTTCGAACCTCGAGGTAGACGTGAGCCTATCCCCA  540
Sbjct  481  GCGGACGAGGAAGACTTCCGAGCGGTTCGAACCTCGAGGTAGACGTGAGCCTATCCCCA  540
Query   541  AGGCACGTGCGGCCGAGGGCAGGACCTGGGCTACGCCCGGTACCTTGGCCCCCTCTATG  600

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Sbjct 541 AGGCTCGTCGCGCCGAGGGCAGGACCTGGGCTCAGCCCGGTACCTTGGCCCCCTCTATG 600
Query 601 GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCT 660
Sbjct 601 GCAATGAGGGCTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCTAGCT 660
Query 661 GGGGCCCCACAGACCCCGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA 720
Sbjct 661 GGGGCCCCACAGACCCCGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTA 720
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Sbjct 721 CGTGGCGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGCG 780
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Sbjct 781 CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTCTCGGAAGACGGCGTGAACATGCAACAG 840
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Sbjct 841 GGAACCTTCCCTGGTGTCTTTCTCTAYCTCCTTCGCGCCCTGCCTCTCTGGCTGACTG 900
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Sbjct 901 TGCCCGCTTCAGCCTACCAAGTGCACAATTCACGGGGCTTTACCACGTACCAATGATT 960
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Sbjct 961 GGCCTAAGTCGATATTGTGTACGAGGCGGCGATGCCATCTGCACACTCCGGGGTGTG 1020
Query 1021 TCCCTTGCCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG 1080
Sbjct 1021 TCCCTTGCCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG 1080
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Sbjct 1081 CCACAGGGATGCGCAAACTCCCGCAGCAGCTTCGACGCTCATATCGATCTGCTGTGCG 1140
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Sbjct 1141 GGAGGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTATGCGGGTCTGCTTTCTTG 1200
Query 1201 TTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT 1260
Sbjct 1201 TCGGCCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGGTGCAATTGCT 1260
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Sbjct 1261 CTATCTATCCCGCCATATAACGGGTCAACGATGGCATGGGATATGATGATGAATGGT 1320
Query 1321 CCCCTACGGCAGCGTTGGTGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA 1380
Sbjct 1321 CCCCTACGAGGGGTTGGTARTGGCTCAGCTGCTCCGGATCCCAAGCCATCTTGGACA 1380
Query 1381 TGATCGCTGGTGTCTACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGTTGGGGA 1440
Sbjct 1381 TGATCGCTGGTGTCTACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGTTGGGGA 1440
Query 1441 ACTGGCGGAAGGTCCTGGTAGTGTCTGCTGCTATTTGCCGCGCTGACGCGGAAACCCAGC 1500
Sbjct 1441 ACTGGCGGAAGGTCCTGGTAGTGTCTGCTGCTATTTGCCGCGCTGACGCGGAAACCCAGC 1500
Query 1501 TCACCGGGGAAATGCCGGCCGACACGGCTGGGCTTGTGGTCTCTTACACAGGGC 1560
Sbjct 1501 TCACCGGGGAAATGCCGGCCACACTGTGCTGGAATTGTAGGCTCCTCGACACAGGGC 1560
Query 1561 CCAAGCAGAACTCCAACATGATCAACACCAACGGCAGTTGGCACATCAATAGCAGCGCT 1620
Sbjct 1561 CCAAGCAGAACTCCAACATGATCAACACCAACGGCAGTTGGCACTCAATAGCAGCGCC 1620
Query 1621 TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT 1680
Sbjct 1621 TGAATGCAATGATAGCCTCAACACCGGCTGGTTGGCAGGGCTTTCTATCACCACAAAT 1680
Query 1681 TCAACTCTTCAGGCTGTCTGAGAGGTTGGCGAGCTGCCAGCCTTACCGATTTTGCC 1740
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Sbjct 1681 | TCAACTCTTCAGGCTGTCTCGAGAGGCTAGCCAGCTGCCGACCCCTTACCGATTTCGACC | 1740
Query 1741 | AGGGCTGGGGTTCCTATCAGTTATGCCAACGGAAGCGGCCCTCGACGAACGCCCTACTGCT | 1800
Sbjct 1741 | AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCGACAGCGCCCTACTGCT | 1800
Query 1801 | GGCACCTACCCCTCAAGACCTTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGTAT | 1860
Sbjct 1801 | GGCACCTACCCCCAAACCTTTCGGGTATTGTGCCCGCAAGAGTGTGTGTGGTCCGGTAT | 1860
Query 1861 | ATTGCTTCACCTCCAGCCCGGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCCTACCT | 1920
Sbjct 1861 | ATTGCTTCACCTCCAGCCCGGTGGTGGTGGGAACGACCGACAGGTGCGGCGCGCCACCT | 1920
Query 1921 | ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACAGGCCACCGCTGG | 1980
Sbjct 1921 | ACAGCTGGGGTGAAAATGATACGGACGTCTTCGTCTTAACAATACAGGCCACCGCTGG | 1980
Query 1981 | GCAATTGGTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC | 2040
Sbjct 1981 | GCAATTGGTTCGGTTGTACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGC | 2040
Query 2041 | CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC | 2100
Sbjct 2041 | CTCCTTGTGTCATCGGAGGGGCGGGCAACAACACCTTGCATGCCCCACTGATTGCTTCC | 2100
Query 2101 | GCAAACATCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT | 2160
Sbjct 2101 | GCAAGCATCCGGAAGCCACATACCTCTCGGTGCGGCTCCGGTCCCTGGMTACACCCAGGT | 2160
Query 2161 | GCATGGTCGACTACCCGATATAGGCTTTGGCATTATCCTTGTACCATCAATACACCATAT | 2220
Sbjct 2161 | GCCTGGTCGACTACCCGATATAGGCTTTGGCATTATCCTTGTACCATCAACTACACCATAT | 2220
Query 2221 | TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAACAGGCTGGAAGCGCCCTGCAACTGGA | 2280
Sbjct 2221 | TAAATATCAGGATGTACGTGGGAGGGGTGGAACACAGGCTGGAAGTGCCTGCAACTGGA | 2280
Query 2281 | CGCGGGGCGAAGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTGTCTGC | 2340
Sbjct 2281 | CGCGGGGCGAAGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTGTCTGC | 2340
Query 2341 | TGTCCACCACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCA | 2400
Sbjct 2341 | TGACCATACACAGTGGCAGGTCTTCCGTGTTCTTCAACACCTTACCAGCCTTGTCCA | 2400
Query 2401 | CGGGCTCATCCACCTCCACAGAACATTGTGGACGTGACGACTTGTACGGGGTAGGGT | 2460
Sbjct 2401 | CGGGCTCATCCACCTCCACAGAACATTGTGGACGTGACGACTTGTACGGGGTAGGGT | 2460
Query 2461 | CAAGCATCGCGTCTTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCTTCTGCTTG | 2520
Sbjct 2461 | CAAGCATCGCGTCTTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCTTCTGCTTG | 2520
Query 2521 | CAGACGCGCGCTGCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG | 2580
Sbjct 2521 | CAGACGCGCGCTGCTGCTCCTGCTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGG | 2580
Query 2581 | CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGCTTGTGT | 2640
Sbjct 2581 | CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGACGGCTTGTGT | 2640
Query 2641 | CCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCGAGAGCGG | 2700
Sbjct 2641 | CCTTCTCGTGTCTTCTGCTTTGATGTTATTGAAGGGTAGTGGGTGCCGAGAGCGG | 2700
Query 2701 | TCTACGCCCTCTACGGGATGTGGCCCTCTCTCTGCTCTCTGCTGGCGTTGCTCAGCGGG | 2760
Sbjct 2701 | TCTACACCTCTCTACGGGATGTGGCCCTCTCTCTGCTCTCTGTTGGCGTTGCCCGAGCGGG | 2760
Query 2761 | CATACGCACTGGACACGGAGGTGGCCGCTGCTGTGGCGCGTGTCTTCTGCGGGTTAA | 2820
Sbjct 2761 | CGTACGCGCTGGACACGGAGGTGGCCGCTGCTGTGGCGGTGTGTCTCTGCTGCGGGTTGA | 2820
Query 2821 | TGGCGTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGCTTC | 2880

Sbjct	2821		TGGCGCTGACTCTGTGACCATATTACAAGCGCTATATCAGCTGGTGCTTGTGGTGGCTTC	2880
Query	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCAAGTCC	2940
Sbjct	2881		AGWATTTTCTGACCAGAGTGGAAGCGCAACTGCACGTGTGGATTCCCCCCCTCAAGTCC	2940
Query	2941		GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCTGGTATTT	2999
Sbjct	2941		GAGGGGGGCGCGACGCCGTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTT	2999
Query	3000		GACATCACCAAACTACTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Sbjct	3000		GACATCACCAAAATGCTGCTGGCCGCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Query	3060		CTTAAAGTCCCTACTTCGTGCGCGGTCAAGGCCCTCTCCGGATCTGCGCGTAGCGCGG	3119
Sbjct	3060		CTTAAAGTACCCTACTTTGTGCGCGTCCAAGGCCCTCTCCGGTCTGCGCGTTAGCGCGG	3119
Query	3120		AAGAT-AGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTAGGGGCGCTTACTGG	3178
Sbjct	3120		AAGATGATC-GGAGGCCATTACGTGCAAAATGGTCATCATTAAAGTAGGGGCGCTTACTGG	3178
Query	3179		CACCTATGTGTATAAACCATCTCACCCCTCTTCGAGACTGGGCGCACACCGGCTGCGAGA	3238
Sbjct	3179		CACCTATGTTTATAAACCATCTCACTCTCTTCGGGACTGGGCGCACACCGGCTTGCAGAGA	3238
Query	3239		TCGTGGCGTGGCTGTGGAACCACTGCTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239		TCGTGGCGTGGCTGTAGAGCCAGTCGCTTCTCCCAATGGAGACCAAGCTCATCACGTG	3298
Query	3299		GGGGGCAGATACCGCCGCGTGGGTGACATCATCAACGGCTTGCCCGTCTTGCCCGTAG	3358
Sbjct	3299		GGGGGCAGATACCGCCGCGTGGGTGACATCATCAACGGCTTGCCCGTCTTGCCCGCGAG	3358
Query	3359		GGGCGAGGAGATACTGCTGGGCGAGCCGACGGAATGGTCTCCAAGGGGTGGAGTTGCT	3418
Sbjct	3359		GGGCGGAGGAGATACTGCTGGGCGAGCCGATGGAATGGTCTCCAAGGGGTGGAGTTGCT	3418
Query	3419		GGCGCCCATACGGCGTACGCCAGCAGACGAGAGGCTCCTAGGTTGTATAATCACCAG	3478
Sbjct	3419		GGCGCCCATACGGCGTACGCCAGCAGACAAGGGGCTCCTAGGTTGCATAATCACCAG	3478
Query	3479		CCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGGGTCCAGATCGTGTCAACTGCTAC	3538
Sbjct	3479		CCTAATCTGGCCGGGACAAAAACCAAGTGGAGGGTGGGTCCAGATCGTGTCAACTGCTAC	3538
Query	3539		CAAACCTTCTCGGCAAGTGCATCAATGGGGTATGCTGGAGTGTCTACACGGGGCGGG	3598
Sbjct	3539		CAAACCTTCTCGGCAAGTGCATCAATGGGGTGTGCTGGAGTGTCTACCACGGGGCGGG	3598
Query	3599		AACGAGGACCATCGCATCACCAAGGGTCCTGTATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599		AACGAGGACCATCGCGTCACCAAGGGTCCTGTATCCAGATGTATACCAATGTAGACCA	3658
Query	3659		AGACCTTGTGGGCTGGCCGCTCTCAAGGTTCCCGCTCATTTGACACCTGTACCTGCGG	3718
Sbjct	3659		AGACCTTGTGGGCTGGCCGCTCTCGCAAGGTASCCGCTCATTTGACACCTGCACTTGGGG	3718
Query	3719		CTCTCGGACCTTTTACCTGGTACAGAGGCACGCCGATGTCAATCCCGTGGCGCGGCGGG	3778
Sbjct	3719		CTCTCGGACCTTTTACCTGGTACAGAGGCACGCCGATGTCAATCCCGTGGCGCGGCGGG	3778
Query	3779		TGATAGCAGGGGTAGCTGCTTTCGCCCGGCCAATTTCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779		TGATAGCAGGGGAGCTGCTGTCGCCCGGCCAATTTCCTACTTGAAAGGCTCCTCGGG	3838
Query	3839		GGGTCGCTGTTGTGCCCCGCGGGACACCGCTGGGCTATTACGGGCGCGGTGTGCAC	3898
Sbjct	3839		GGGTCGCTGTTGTGCCCCGCGGGACACCGCTGGGATATTATAGGGCGCGGTGTGCAC	3898
Query	3899		CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899		CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959		ATCCCCGCTGTTACAGGACAACCTCTCTCCACAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018

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Sbjct 3959 GTCCCCGGTGTTCACGGATAACTCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGC 4018
Query 4019 CCACCTGCATGCTCCACCAGCGCAGCGGTAAAGAGCACCAAGGTCCCGGTGCGTACCGCAGC 4078
|||||
Sbjct 4019 TCACCTCCATGCTCCACAGGCAGCGGCAAAAGCACCAAGGTCCCGGTGCTATGACAGC 4078
Query 4079 CCAGGGGTACAAGGTGTGGTGCTCAACCCCTCTGTGCTGCAACGCTGGGCTTTGGTGC 4138
|||||
Sbjct 4079 TCAGGGGTATAAGGTGCTAGTACTCAACCCCTCTGTGCTGCAACACTGGGCTTTGGTGC 4138
Query 4139 TTACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTAC 4198
Sbjct 4139 TTACATGTCCAAGGGCTCATGGGATCGATCYTAACATCAGGACCGGGGTGAGAACAAATTAC 4198
Query 4199 CACTGGCAGCCCCATACGTAAGTCTCCACTACGGCAAGTTCCTTGGCCAGCGCGGGTGCTC 4258
Sbjct 4199 CACTGGCAGCCCCATACGTAAGTCTCCACTACGGCAAGTTCCTTGGCCAGCGCGGGTGCTC 4258
Query 4259 AGGAGGTGCTTATGACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCAT 4318
Sbjct 4259 GGGGGGCGCTTATGACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCAT 4318
Query 4319 CTTGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT 4378
Sbjct 4319 CTTGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT 4378
Query 4379 CGCCACTGCTACCCCTCCGGGCTCCGTCACGTGTGCTCCATCCTAACATCGAGGAGGTTGC 4438
Sbjct 4379 CGCCACCGCCACCCCTCCGGGCTCCGTCACGTGTGCTCCATCCTAACATCGAGGAGGTTGC 4438
Query 4439 TCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA 4498
Sbjct 4439 TCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAA 4498
Query 4499 GGGGGGAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGGCAGAGCTCGCCCGCAA 4558
Sbjct 4499 GGGGGGAGACATCTCATCTTCTGTCAATCAAAGAAGAGTGGCAGAGCTCGCCCGCAA 4558
Query 4559 GCTGGTCGCAATGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGCTGTGCAT 4618
Sbjct 4559 GCTGGTCGCAATGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGCTGTGCAT 4618
Query 4619 CCCGACCAGCGGCGATGTTGTGCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGG 4678
Sbjct 4619 CCCGACCAGCGGCGATGTTGTGCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGG 4678
Query 4679 CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCT 4738
Sbjct 4679 CGACTTCGACTCGGTGATAGACTRCAATACGTGTGTCACTCAGACAGTCGATTTACGCT 4738
Query 4739 TGACCTTACCTTTACCATGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCA 4798
Sbjct 4739 TGACCTTACCTTCAACATGAGACAATACGCTCCCCAGGATGCTGTCTCCGCACTCA 4798
Query 4799 ACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCAGGGGA 4858
Sbjct 4799 ACGTCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCAGGGGA 4858
Query 4859 GCGCCCTTCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGC 4918
Sbjct 4859 GCGCCCTTCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGACGCTGTGC 4918
Query 4919 TTGGTATGAGCTCACGCCCGCAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC 4978
Sbjct 4919 TTGGTATGAGCTCACGCCCGCAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC 4978
Query 4979 GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCAC 5038
Sbjct 4979 GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAGGCTCAC 5038
Query 5039 TCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTTCTTACCT 5098
Sbjct 5039 TCATATAGATGCCCACTTTCTATCCAGACAAAGCAGAGTGGGGAGAACTTTCTTACCT 5098
Query 5099 GGTAGCGTACCAAGCCACCGTGTGCGCTAGGCGTCAAGCCCTCCCCATCGTGGGACCA 5158
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Sbjct	5099		GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCCCCCATCGTGGGACCA	5158
Query	5159		GATGTGGAAGTGTGTTGATCCGCCCTTAAACCCACCCCTCCATGGGGCAACACCCCTGCTATA	5218
Sbjct	5159		GATGTGGAAGTGTGTTGATTGCGCTCAAGCCACCCCTCCATGGGGCAACACCCCTGCTATA	5218
Query	5219		CAGACTGGGCGCTGTTTCAAGTAAAGTACCCCTGACGCACCCCAATCACCATAATACATCAT	5278
Sbjct	5219		CAGACTGGGCGCTGTTTCAAGTAAATACCCCTGACGCACCCAGTCACCAATAATACATCAT	5278
Query	5279		GACATGCATGTGCGGCGACCTGGAGGTCGTACAGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Sbjct	5279		GACATGCATGTGCGGCGACCTGGAGGTCGTACAGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Query	5339		CCTGGCTGCTCTGGGCGCGTATTGCGCTGTCAACAGGCTGCGTGGTCATAGTGGGAGGAT	5398
Sbjct	5339		CCTGGCTGCTTTGGCGCGGTATTGCGCTGTCAACAGGCTGCGTGGTCATAGTGGGAGGAT	5398
Query	5399		CGTCTTGCCGGGAAGCCGCAATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTGCG	5457
Sbjct	5399		CGTCTTGCCGGGAAGCCGCAATCATACCTGACAGGGAGTGCTCTACCAG-AGTTCG	5457
Query	5458		ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCAGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458		ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCAGAGCAAGGGATGATGCTCGCG	5517
Query	5518		AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCAGCATCAGAGGTTA	5577
Sbjct	5518		AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCAGCATCAGAGGTTA	5577
Query	5578		TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCAGATGT	5637
Sbjct	5578		TCGCCCTGCTGTCCAGACCAACTGGCAAACTCGAGACCTTCTGGGCGAAGCAGATGT	5637
Query	5638		GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCCG	5697
Sbjct	5638		GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCCG	5697
Query	5698		CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCAGTGGCCAAA	5757
Sbjct	5698		CCATTGCTTCATTGATGGCTTTTACAGCTGCTGTACCAGCCCACTAACCAGTGGCCAAA	5757
Query	5758		CCCTCCTCTTCAACATATTgagggggTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG	5817
Sbjct	5758		CCCTCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG	5817
Query	5818		CTACTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGACGCTGGACTGGGGA	5877
Sbjct	5818		CTACTGCCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGACGCTGGACTGGGGA	5877
Query	5878		AGGTCTCTGTTGGACATTTCTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878		AGGTCTCTATAGACATCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938		TCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938		TCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCA	5997
Query	5998		TCCTCTCGCCTGAGGCCCTGTAGTTCGGTGTGGTCTGCGCAGCAATACTGCGCCGCGCAG	6057
Sbjct	5998		TCCTCTCGCCCGGAGGCCCTGTAGTTCGGCGTGGTCTGTGACGAATACTGCGCCGCGCAG	6057
Query	6058		TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGG	6117
Sbjct	6058		TTGGCCCGGGCGAGGGGGCAGTCAGTGGATGAACCGGCTGATAGCCTTCGCCCTCCCGGG	6117
Query	6118		GGAACCATGTTTCCCCACGCACACTACGTGCCGGAGAGCGATGACGCCGCCCGGTCACTG	6177
Sbjct	6118		GGAACCATGTTTCCCCACGCACACTACGTGCCGGAGAGCGATGACGTGCCCGGTCACTG	6177
Query	6178		CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178		CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCACTGGATAAGCT	6237
Query	6238		CGGAGTGTACCACTCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297

Sbjct	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGAGCTGGATATGCG	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACTGGCTGAAAGCCAAAGTCATGCCACAACCTGCCCTGGGA	6357
Sbjct	6298	AGGTGTTGAGCGACTTTAAGACTGGCTAAAAGCTAAGTCATGCCACAGCTGCCCTGGGA	6357
Query	6358	TTCCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGCTGCGCAG-GAGACGGCATTATG	6416
Sbjct	6358	TCCCTTTGTGTCTGCCAGCGCGGGTATAAGGGGGCTGCGCAGKG-GACGGCATCATG	6416
Query	6417	CACACTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417	CACACTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Query	6477	ATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTAC	6536
Sbjct	6477	ATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAAGCCTAC	6536
Query	6537	ACCACGGGGCCCTGTACTCCCTTCCTGCGCCGAACATAAGTTTCGGCTGTGAGGGGTG	6596
Sbjct	6537	ACCACGGGGCCCTGTACCCCTTCCTGCGCCGAACATACAGTTTCGGCTGTGAGGGGTG	6596
Query	6597	TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTAT	6655
Sbjct	6597	TCTGCAGAGGAATATGTGGAGATAAGGCAAGTGGGGGACTTCCACTACGTGA-CGGGTAT	6655
Query	6656	GACTACTGACAATCTTAAATGCCGCTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6715
Sbjct	6656	GACTACTGACAATCTCAAATGCCGCTGCCAGGTCCCATCGCCCGAATTTTTCACAGAATT	6715
Query	6716	GGACGGGGTGGCGCTACACAGGTTTGGCGCCCTTGCAGGCCCTTGTCTGCGGGAGGAGGT	6775
Sbjct	6716	GGACGGGGTGGCGCTACATAGATTGTGGCGCCCTTGCAGGCCCTTGTCTGCGGGAGGAGGT	6775
Query	6776	ATCATCGAGTAGGACTACAGAGTACCCTGGGTTGCGAATTACCTTGGGAGGCCGA	6835
Sbjct	6776	ATCATTCAGAGTAGGACTCCACGATAACCGGTAGGTCGAATTACCTTGCAGGCCGA	6835
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTACTGATCCCTCCCATATAACAGCAGAGGC	6895
Sbjct	6836	ACCGGACGTGGCCGTGTTGACGTCCATGCTACTGATCCCTCCCATATAACAGCAGAGGC	6895
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCC	6954
Sbjct	6896	GGCCGGGCGAAGGTTGGCGAG-GGATACCCCTTCTGTGGCCAGCTCCTCGGCTAGCC	6954
Query	6955	AGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCG	7014
Sbjct	6955	AGCTATCCGCTCCATCTCTCAAGGCAACTTGCACCGCTAACCATGACTCCCTGATGCTG	7014
Query	7015	AGCTCATAGAGGCTAACTCCTGTGGAGGCAGGAGATGGCGCGCAACATCACCAGGGTTG	7074
Sbjct	7015	AGCTCATAGAGGCCAACCTCCTATGGAGGCAGGAGATGGCGCGCAACATCACCAGGGTTG	7074
Query	7075	AGTCAGAGAAACAAGTGGTGATTCTGGAACCTCTTCGATCCGCTTGTGGCAGAGGAGGATG	7134
Sbjct	7075	AGTCAGAAACAAGTGGTGATTCTGGAACCTCTTCGATCCGCTTGTGGCAGAGGAGGACG	7134
Query	7135	AGCGGGAGGTTCCGTAACCTGCAGAAATCTCGGGAAGTCTCGGAGATTGCGCCGGGCC	7194
Sbjct	7135	AGCGGGAGATCTCCGTACCGCAGAAATCTCGGGAAGTCTCGGAGATTGCGCCAGGCC	7194
Query	7195	TGCCCGTCTGGGCGCGGCGGACTACAACCCCCCGTAGTAGAGACGTGGAAAAAGCCTG	7254
Sbjct	7195	TGCCCGTTTGGGCGCGGCGGACTATAACCCCCCGTAGTGAGACGTGGAAAAAGCCCG	7254
Query	7255	ACTAGAACACCTTGGTTCATGGCTGCCGCTACCACTTCACCGTCCCTCCTGTGC	7314
Sbjct	7255	ACTACGAACACCTTGGTTCATGGCTGCCGCTCCACTTCCACTTCAAAGTCCCTCCTGTGC	7314
Query	7315	CTCCGCTCGGAAAGGCTACGGTGGTCTCACGGAATCAACCTATCTACTGCTTTGG	7374
Sbjct	7315	CTCCGCTCGGAAGAAGCGGACGGTGGTCTCTACTGAATCAACCTATCTACTGCTTTGG	7374
Query	7375	CCGAGTCTGCCACCAAAAGTTTGGCAGCTCTCAACTTCGGGATTACGGGCGACAATA	7433

Sbjct	7375	CCGAGCTCTGCCASCAGAAGCTTTTGACGTCTCTCAACTTCGGCATTACGGCGACAATA	7434
Query	7435	CGACACATCTCTTGAAGCCGCGCCCTTCTGGCTGCCCCCGCATCCGACGTTGAGTCT	7494
Sbjct	7435	CGACACATCTCTTGAAGCCGCGCCCTTCTGGCTGCCCCCCGCATCCGACGTTGAGTCT	7494
Query	7495	ATTCTTCCATGCCCCCTGGAGGGGAGGCTGGGGATCCGGATCTCAGCGACGGGTCAT	7554
Sbjct	7495	WTKCTTCCATGCCCCCCCTGGAGGGGAGGCTGGGGATCCGGATCTTAGCACGGGTCAT	7554
Query	7555	GGTCGACGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATT	7614
Sbjct	7555	GGTCACCGTCAGTAGTGAAGCCAACGCGAGGATGTCGTGTGCTGCTCAATGCTTACT	7614
Query	7615	CCTGGACAGGGCCTCTGTCACCCCCTGGCTGCGGAAGAACAAAAATGCCCATCAACG	7674
Sbjct	7615	CTTGGACAGGGCCTCTGTCACCCCCTGGCTGCGCGCGGAAGAACAGAAATGCCCATCAATG	7674
Query	7675	CACGTAGCAACTCTGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTCAGCGAGTG	7734
Sbjct	7675	CACTAAGCAACTCTGTTGCTACGTACCCACAATTGGTGATTCCACCACCTCAGCGAGTG	7734
Query	7735	CTTGCCAAAGGCAGAGAAAAGTCACATTGACAGACTGCAAGTTCTTGGACAGCCATTACC	7794
Sbjct	7735	CTTGCCAAAGGCAGAGAAAAGTCACATTGACAGACTGCAAGTTCTTGGACAGCCATTACC	7794
Query	7795	AGGACGTGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAATTGCTATCCG	7854
Sbjct	7795	AGGACGTACTCAAGGAGGTTAAAGCAGCGCGCTCAAAGTGAAGGCTAATTBCTATCCG	7854
Query	7855	TAGAGGAAGCTTGCGAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGG	7914
Sbjct	7855	TAGAGGAAGCTTGCGAGCCTGACGCCCCACACTCAGCCAAATCCAAGTTTGGTATATGGGG	7914
Query	7915	CAAAAGACGTCGGTTGCCATGCGAGAAAGGCCGTAGCCCAATCAACTCCGTGTGGAAG	7974
Sbjct	7915	CAAAAGACGTCGGTTGCCATGCCAGAAAGGCCGTAAACCACATCAACTCCGTGTGGAAG	7974
Query	7975	ACCTTCTGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAGAAGCAGGTTT	8034
Sbjct	7975	ACCTTCTGGAAGACAAATGTAAACCAATAGACACTACCATCATGGCTAGAAGCAGGTTT	8034
Query	8035	TCTGCGTTTTCAGCCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTCCCGGACC	8094
Sbjct	8035	TCTGCGTTTTCAGCCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTCCCGGATC	8094
Query	8095	TGGCGGTGCGCGTGTGGGAGAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTG	8153
Sbjct	8095	TGGCGGTGCGCGTGTGGGAAAAGATGGCTTTGTACGACGTGGTTA-CAAGCTCCCCCTG	8153
Query	8154	GCCGTGATGGGAAGCTCTTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8213
Sbjct	8154	GCCGTGATGGGAAGCTCTTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8213
Query	8214	GTGCAAGCGTGGAGTCCAAGAAAGCCCCGATGGGGTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8214	GTGCAAGCGTGGAGTCCAAGAAAACCCCAATGGGGTCTCGTATGATACCCGCTGCTTT	8273
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTACCAATGTTGTGAC	8333
Sbjct	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGAC	8333
Query	8334	CTGAGCCCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8334	CTCGACCCCCAAGCCCGCTGGCCATCAAGTCCCTCACCAGAGGCTTTATGTTGGGGGC	8393
Query	8394	CCCTCTACCAATTCAAGGGGGGAAACTCGGGCTACCGCAGGTGCCGCGAGCGGCGTA	8453
Sbjct	8394	CCCTCTACCAATTCAAGGGGGGAAACTCTGGCTATCTCGAGGTGCCGCGAGCGGCGTA	8453
Query	8454	CTGACAACTAGCTGTGGTAACACCTCACTTGTACATCAAGGCCCGGGCAGCCTGTGCA	8513
Sbjct	8454	CTGACAACTAGCTGTGGTAACACCTCACTTGTACATCAAGGCCCGGGCAGCCTGTGCA	8513
Query	8514	GCCGCAAGGCTCCAGGACTGCACCATGCTCGTGTGTGGCAGCACTTAGTCGTTATCTGT	8573

Sbjct	8514	GCCGCGAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Query	8574	GAAAGTGCGGGGGTTCAGGAGGACGGCGGAGGCTGAGAGCCTTCACGAGGCTATGACC	8633
Sbjct	8574	GAAAGCGCGGGGTTCAGGAGGACGGCGGAGGCTGAGAGCCTTCACGAGGCTATGACC	8633
Query	8634	AGGTACTCGGcccccccggggaacccccACAACCAAGAATACGACTTGGAGCTTATAACA	8693
Sbjct	8634	AGGTACTCGCCCCCCTGGGGACCCCCACAACCAAGAATACGACTTGGAGCTATAACA	8693
Query	8694	TCATGCTCCTCCAACGTGTCAGTCGCCACGACGGCGCTGGAAGAGGGTCTACTACCTT	8753
Sbjct	8694	TCATGCTCCTCCAACGTGTCAGTCGCCACGACGGCGCTGGAAGAGGGTCTACTACCTC	8753
Query	8754	ACCCGTGACCCTACAACCCCCCTCGCGAGAGCGCGTGGGAGACAGCAAGACACACTCCA	8813
Sbjct	8754	ACCCGTGACCCTACAACCCCCCTCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCA	8813
Query	8814	GTCAAATCTTGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATA	8873
Sbjct	8814	GTCAAATCTTGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATA	8873
Query	8874	CTGATGACCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8933
Sbjct	8874	CTGATGACCCATTTCTTTAGCGTCTCTTATAGCCAGGGACAGCTTGAACAGGCCCTCGAT	8933
Query	8934	TGTGAGATCTACGGAGCTTGCTACTCCATAGAACCACTGGATCTACTCTCAATCATTCAA	8993
Sbjct	8934	TGGGAGATCTACGGGGCTGCTACTCCATAGAACCACTGTATCTACTCTCAATCATTCAA	8993
Query	8994	AGACTCCATGGCCTCAGCGCATTTTACTCCACAGTTACTCTCCAGGTGAAATCAATAGG	9053
Sbjct	8994	AGACTCCATGGCCTCAGCGCATTTTACTCCACAGTTACTCTCCAGGTGAAATTAATAGG	9053
Query	9054	GTGGCGCATGCCTCAGAAAACCTTGGGTCCC GCCCTTGGCGAGCTTGGAGACACCGGGC	9113
Sbjct	9054	GTGGCGCATGCCTCAGAAAACCTTGGGTACGCCCTTGGCGAGCTTGGRGACACCGGGC	9113
Query	9114	CGGAGCGTCCGCGTAGGCTTCTGTGCCAGGAGGCGGGCTGCCATATGTGGCAAGTAC	9173
Sbjct	9114	CGGAGCGTCCGCGTAGGCTTCTGTGCCAGGAGGCGGGCTGCCATATGTGGCAAGTAC	9173
Query	9174	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTACTCCAATAGCGGCGCGTGGCCGG	9233
Sbjct	9174	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTACTCCAATAGCGGCGCGTGGCCAG	9233
Query	9234	CTGGACTGTGTCGGTGGTTACAGCGCTGGCTACAGCGGGGAGACATTTATCAGCGGTG	9293
Sbjct	9234	CTGGACTGTGTCGGCTGGTTACAGCGCTGGCTACAGCGGGGAGACATTTATCAGCGGTG	9293
Query	9294	TCTCATGCCCGGCCCGCTGGTTCIGGTTTTGCTACTCTTGCTCGCTGACGGGGTAGGC	9353
Sbjct	9294	TCTCATGCCCGGCCCGCTGGATCTGGTTTTGCTTCTGTTCTGCTGACGGGGTAGGC	9353
Query	9354	ATCTACCTCTCTCCCAACCGATGAAGGTTGGGGTAAACATCTCGGCT 9401	
Sbjct	9354	ATCTACCTCTCTCCCAACCGATGAAGGTTGGGGTAAACATCTCGGCT 9401	

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Length=9379
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Score = 1.513e+04 bits (8192), Expect = 0.0
Identities = 8987/9386 (95%), Gaps = 14/9386 (0%)
Strand=Plus/Plus

Query	23	CAC	TCC	ACCA	TGAAT	CACT	CCCC	TGT	GAGGA	AACT	ACT	TGCT	TTC	ACG	CA	GA	AA	CG	CT	TA	82
Sbjct	1	CAC	TCC	ACCA	TGAAT	CACT	CCCC	TGT	GAGGA	AACT	ACT	TGCT	TTC	ACG	CA	GA	AA	CG	CT	TA	60
Query	83	CCAT	GCG	GTT	AGT	ATG	AGT	GTC	GT	CAG	CCT	TCC	AGGA	ccccccc	TCC	CGG	AG	GAG	CC	TA	142
Sbjct	61	CCAT	GCG	GTT	AGT	ATG	AGT	GTC	GT	CAG	CCT	TCC	AGGA	ccccccc	TCC	CGG	AG	GAG	CC	TA	120
Query	143	GTG	GT	CTCGG	AAAC	CGGT	GAGT	ACA	CCCGGA	AT	TGCC	AGAC	CGAC	CGGGT	CTT	TCT	TGGA				202

Sbjct	121	GTGGTCTCGCGAACC	CGTGAGTACACCGGAATTGCCAGGACGACCGGTCCTTTCTTGA	180
Query	203	TAAACCCGCTCAATG	CGCTGGAGATTGGGCGTGCCCCGCGAAGACTGCTAGCCGAGTAGT	262
Sbjct	181	TCAACCCGCTCAATG	CGCTGGAGATTGGGCGTGCCCCGCGAAGACTGCTAGCCGAGTAGT	240
Query	263	GTTGGGTGCGGAAAGG	CGCTTGTGGTACTGCTGATAGGGTGCTTGCAGGTGCCCGGGAG	322
Sbjct	241	GTTGGGTGCGGAAAGG	CGCTTGTGGTACTGCTGATAGGGTGCTTGCAGGTGCCCGGGAG	300
Query	323	GTCTCTGTAGACCGT	GACCAATGAGCACGAATCTTAAACCTCAAAGAAAAACCAACGTAA	382
Sbjct	301	GTCTCTGTAGACCGT	GACCAATGAGCACGAATCTTAAACCTCAAARAAAAACCAACGTAA	360
Query	383	CACCAACCGTCGCC	CACAGGACGTCAAGTTCCCGGGTGGCGGTGAGATCGTTGGTGGAGT	442
Sbjct	361	CACCAACCGTCGCC	CACAGGACGTCAAGTTCCCGGGTGGCGGTGAGATCGTTGGTGGAGT	420
Query	443	TTACTTGTTCGCCG	CAGGGGCCCTAGATTGGGTGTGCGCGCAGCAGGAAGACTTCCGA	502
Sbjct	421	TTACTTGTTCGCCG	CAGGGGCCCTAGATTGGGTGTGCGCGCAGCAGGAAGACTTCCGA	480
Query	503	GCGGTGCGAACCT	CGAGGTAGACGTGAGCCTATCCCCAAGGCACGTGCGCCGAGGGCGAG	562
Sbjct	481	GCGGTGCGAACCT	CGAGGTAGACGTGAGCCTATCCCCAAGGCCTGTCGCGCCGAGGGCGAG	540
Query	563	GACCTGGGCTCAGC	CGGGGTACCTTGGCCCCCTATAGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541	GACCTGGGCTCAGC	CGGGGTACCTTGGCCCCCTATAGGCAATGAGGGCTGCGGGTGGGC	600
Query	623	GGGATGGCTCCTG	CTCTCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCGGCG	682
Sbjct	601	GGGATGGCTCCTG	CTCTCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCGGCG	660
Query	683	TAGGTGCGGCAATT	TGGGTGAAGTCATCGATACCTTACGTGCGGGCTTCGCCGACCTCAT	742
Sbjct	661	TAGGTGCGGCAATT	TGGGTGAAGTCATCGATACCTTACGTGCGGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCG	TCGTGCGCGCCCCCTTTGGAGGCGCTGCGCAGGGCCCTGGCGCATGG	802
Sbjct	721	GGGGTACATACCG	TCGTGCGCGCCCCCTTTGGAGGCGCTGCGCAGGGCCCTGGCGCATGG	780
Query	803	CGTCCGGGTTCTG	GGAAGACGCGTGAACATATGCAACAGGGGAACCTTCTGGTGTGCTCTT	862
Sbjct	781	CGTCCGGGTTCTG	GGAAGACGCGTGAACATATGCAACAGGGGAACCTTCTGGTGTGCTCTT	840
Query	863	CTCTATCTTCCTT	CTGCGCCTGCTCTCTTGCTGACTGTGCCCGCTTCAGCCTACCAAGT	922
Sbjct	841	CTCTATCTTCCTT	CTGCGCCTGCTCTCTTGCTGACTGTGCCCGCTTCAGCCTACCAAGT	900
Query	923	GCGCAATTCTCTG	GGGCTTTACCAATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAACTCCACG	GGGCTTTACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGGCATG	CCATCCTGCACACTCCGGGGTGTGCCCTTGCCTTGCCTTGCAGAGGGTAA	1042
Sbjct	961	CGAGGCGGGCATG	CCATCCTGCACACTCCGGGGTGTGCCCTTGCCTTGCCTTGCAGAGGGTAA	1020
Query	1043	CGCCTCGAGGTGT	TGGGTGGCGGTGACCCCAACGGTGGCCACACAGGACGGCAACTCCC	1102
Sbjct	1021	CGCCTCGAGGTGT	TGGGTGGCGGTGACCCCAACGGTGGCCACACAGGATGGCAACTCCC	1080
Query	1103	CACAACGCGAGCT	TCGAGCTCATATGATCTGCTTGTGCGGAGCGCCACCTCTGCTGGCG	1162
Sbjct	1081	CGCGAGCGAGCT	TCGAGCTCATATGATCTGCTTGTGCGGAGCGCCACCTCTGCTGGCG	1140
Query	1163	CCTCTACGTGGGG	GACCTGTGCGGGTCTGCTCTTCTTGTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGG	GACCTGTGCGGGTCTGCTCTTCTTGTGGTCAACTGTTTACCTTCTC	1200
Query	1223	TCCCAAGGCGCACT	GAGACGACGCAAGACTGCAATTGCTTATCTGCTTCCCGGCATAATAC	1282
Sbjct	1201	TCCCAAGGCGCACT	GAGACGACGCAAGGTGCAATTGCTTATCTATCCCGGCATAATAC	1260
Query	1283	GGGTATCGCATGG	CATGGGATATGATGATGAAGTGGTCCCTACGGCAGCGTTGGTGGT	1342

Sbjct	1261	GGGTCACCCGATGGCATGGGATATGATGATGAACCTGGTCCCCTACGACGGCGGTGGTART	1320
Query	1343	AGCTCAGCTGCTCGGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321	GGCTCAGCTGCTCGGGATCCCACAAGCCATCTTGGACATGATCGCTGGTGCTCACTGGGG	1380
Query	1403	AGTCCTGGCGGGCATAGCGTATTTCCTCATGGTGGGGAACTGGGCGAAAGTCTGGTAGT	1462
Sbjct	1381	AGTCCTGGCGGGCATAGCGTATTTCCTCATGGTGGGGAACTGGGCGAAAGTCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTCGCGGCGTCGACGCGGAAACCAACGTACCGGGGGAAATGCGGCGCG	1522
Sbjct	1441	GCTGCTGCTATTTCGCGGCGTCGACGCGGAAACCAACGTACCGGGGGAAATGCGGCGCA	1500
Query	1523	CACCACGGCTGGGCTTGTGGTCTCCTTACACCAGGCGCCAAAGCAGAACATCCAACGTAT	1582
Sbjct	1501	CACGTGTCTCGGATTGTGTAGCCTCCTCGACACGGCGCCAAAGCAGAACATCCAACGTAT	1560
Query	1583	CAACACCAACGGCAGTTGGCACAATCAATAGCAGCGGCTTGAATTGCAATGAAGCCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCCTCAATAGCAGCGGCTTGAATGCAATGATAGCCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTAACCTTTCAGGCTGTCCCTGA	1702
Sbjct	1621	CACCGGCTGGTTGCGAGGGCTTCTTCTATCACCACAAGTTCAACTTTCAGGCTGTCCCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCGCAGCGCTTACCGATTTCGCCCAGGGCTGGGGTCTTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCGCAGCCCTTACCGATTTCGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCTCGACGAACGCGCCCTACTGCTGGCACTACCCCTCAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGCTCGGACGCGCGCCCTACTGCTGGCACTACCCCTCAAAACCTTG	1800
Query	1823	TGGCATTGTGGCCGCAAGAGCGGTGCGCGCGGTATATTGCTTCACTCCGACCCCGGT	1882
Sbjct	1801	CGGTATTGTGCCCGCAAGAGTGTGTGTGGTCCGGTATATTGCTTCACTCCGACCCCGGT	1860
Query	1883	GGTGGTGGGAACGACGACAGGTGCGGCGCGCTACTTACAGCTGGGGTGCAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACGACAGGTGCGGCGCGCCACTTACAGCTGGGGTGAAATGATAC	1920
Query	1943	GGATGCTTCGTCCTTAAACAACACGAGCCACCGCTGGGCAATTGGTTGGTTGTACCTG	2002
Sbjct	1921	GGACGCTTCGTCCTTAAACAATACGAGCCACCGCTGGGCAATTGGTTGGTTGTACCTG	1980
Query	2003	GATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGCCCTTGTGTATCGGAGGGGT	2062
Sbjct	1981	GATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGCTCTTGTGTATCGGAGGGGC	2040
Query	2063	GGGCAACAACACCTTGCTTCGCGCCACTGATTGCTTCGCGAAGCATCCGGAAGCCATA	2122
Sbjct	2041	GGGCAACAACACCTTGCACTGCGCCACTGATTGCTTCGCGAAGCATCCGGAAGCCATA	2100
Query	2123	CTCTCGGTGGCGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTGCATACCCGTATAG	2182
Sbjct	2101	CTCTCGGTGGCGCTCCGGTCCCTGGMTCACACCCAGGTGCTTGGTGCATACCCGTATAG	2160
Query	2183	GCTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTGGCATATATCCTTGTACCATCAACTACACCATATTAAAAATCAGGATGTACGTGGG	2220
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Sbjct	2221	AGGGGTCGAACAGAGGTGGAAGTGCTGCAACTGGACGGGGGGCGAAGCTGTGATCT	2280
Query	2303	GGAAGACAGGACAGGTCCGAGCTCAGCCGTTGCTGTGTGTCACACACAGTGGCAGGT	2362
Sbjct	2281	GGAAGACAGGACAGGTTCGAGCTCAGCCGTTGCTGTGTGTCACACACAGTGGCAGGT	2340
Query	2363	CTTCGGTGTCTTTTACAGCCTCGCACCGTTCGTCACCGGCTCATCCACTTCACCA	2422
Sbjct	2341	CCTCCGTTGTCCTTTCACAACCTACACGCTTGTCCACGGGCTCATCCACTTCACCA	2400
Query	2423	GAACATTGTGGACGTGCACTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTCTGGGCAT	2482

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Sbjct	2461	TAAGTGGGAGTAGCTGCTTCTCCTGTTCTTCTGCTTGCAGACGCGCGCTGCTGCTCTG	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGCGCGCTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGCGCGCTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCTTGGCCGGGACGACGGTCTTGTGCTCTTCTCGTGTCTTCTGCTT	2662
Sbjct	2581	TAATGCAGCATCCTTGGCCGGGACGACGGTCTTGTATCTTCTCGTGTCTTCTGCTT	2640
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Sbjct	2641	TGCAATGGTATTTGAAGGGTAAGTGGGTGCCGGAGCGGTCTACACCTTCTACGGGATGTG	2700
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Sbjct	2701	GCCTCTCCTCCTGCTCCTGTTGGCGTTGCCAGCGGGCGTACGCGCTGGACACGGAGGT	2760
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Sbjct	2761	GGCCGCGCTCGTGTGGCGGTGTGTCTGCTGCGGTGTATGGCGCTGACTCTGTGCGCATA	2820
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Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTGACATCACCAAATGCTGCTGG	2999
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Sbjct	3000	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	CGGTTCAGGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060	CGGTTCAGGGCCCTTCTCCGGTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCATTGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAAATGGTTCATCATTAAGTTAGGGGCGCTTACTGGCACCATTGTGTATAACCATCTC	3178
Query	3201	ACCCCTCTTCGAGACTGGGCGCACAAACGCGCTGCGAGATCTGGCGGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCCTCTTCGAGACTGGGCGCACAAACGCTTGGCGAGATCTGGCGGTGGCTGTAGAGCCA	3238
Query	3261	GTCGCTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGCGAGATACCGCGCGTGC	3320
Sbjct	3239	GTCGCTCTTCTCCCAATGGAGACCAAGCTCATCACGTGGGGGCGAGATACCGCGCGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
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Query	3381	CAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGGTACGCC	3440
Sbjct	3359	CAGCCGATGGAAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCTCTTAGGGTGATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
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Sbjct 3539 ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCGGAACGAGGACCATCGCTCACCC 3598
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Query	5361		5420
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Query	5540		5599
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Query	5660		5719
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Query	5780		5839
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Query	5840		5899


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Sbjct 5818 |CTTAGCTGGCGCCGCATCGGCAGTGTGGACTGGGGAAGGTCCTCATAGACATCCTTGC| 5877
Query 5900 |AGGGTATGGCGCGGGCGTGGCGGAGACTCTTGTAGCATCAAGATCATGAGCGGTGAGGT| 5959
Sbjct 5878 |AGGGTATGGCGCGGGCGTGGCGGAGACTCTTGTGGCATCAAGATCATGAGCGGTGAGGT| 5937
Query 5960 |CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCTGGAGCCCTTGT| 6019
Sbjct 5938 |CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCGGAGCCCTCGT| 5997
Query 6020 |AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTGGCCCGGGCGAGGGGGCAGT| 6079
Sbjct 5998 |AGTCGGCGTGGTCTGTGTCAGCAATACTGCGCCGGCAGCTTGGCCCGGGCGAGGGGGCAGT| 6057
Query 6080 |GCAATGGATGAACCGCTAATAGCCTTCGCCCTCCCGGGGAACATGTTTCCCCACGCA| 6139
Sbjct 6058 |GCAGTGGATGAACCGCTGATAGCCTTCGCCCTCCCGGGGAACCATGTTTCCCCACGCA| 6117
Query 6140 |CTACGTGCCGAGAGCGATGACAGCCGCCGCGTCACTGCCATACTCAGCAGCCCTCACTGT| 6199
Sbjct 6118 |CTACGTGCCGAGAGCGATGACAGCTGCCGCGTCACTGCCATACTCAGCAGCCCTCACTGT| 6177
Query 6200 |AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGACCACTCCATGCTC| 6259
Sbjct 6178 |AACCCAGCTCCTGAGGCGACTGCACCAAGTGGATAAGCTCGGAGTGACCACTCCATGCTC| 6237
Query 6260 |CGGTTCTTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC| 6319
Sbjct 6238 |CGGTTCTTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC| 6297
Query 6320 |CTGGCTGAAAGCCAAAGCTCATGCCACAACCTGCTGGGATTCCCTTTGTGTCTTCCACGCG| 6379
Sbjct 6298 |CTGGCTAAAAGCTAAGCTCATGCCACAGCTGCTGGGATCCCTTTGTGTCTTCCACGCG| 6357
Query 6380 |CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCAATTATGCACACTCGCTGCCACTGTGGAG| 6438
Sbjct 6358 |CGGGTATAGGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG| 6416
Query 6439 |CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCA| 6498
Sbjct 6417 |CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCA| 6476
Query 6499 |GGAACATGTGGAGTGGGACGTTCCCATTAACGCCCTACACCACGGGCCCCGTACTCCCC| 6558
Sbjct 6477 |GGAACATGTGGAGTGGGACCTTCCCATTAAGCTACACACGGGCCCCGTACTCCCC| 6536
Query 6559 |TTCCTGCGCCGAACATATAAGTTTCGCGCTGTGGAGGTGTCTGCAGAGGAATACGTGGAGA| 6618
Sbjct 6537 |TTCCTGCGCCGAACATACAGTTTCGCGCTATGGAGGTGTCTGCAGAGGAATATGTGGAGA| 6596
Query 6619 |TAAGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC| 6677
Sbjct 6597 |TAAGCGAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAATGC| 6655
Query 6678 |CCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGACGGGTGCGCCTACACAGG| 6737
Sbjct 6656 |CCGTGCCAGGTCCCATCGCCGAATTTTTCACAGAATTGGACGGGTGCGCCTACATAGG| 6715
Query 6738 |TTTGC GCCCTTTCGAGCCCTTGTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC| 6797
Sbjct 6716 |TTTGC GCCCTTTCGAGCCCTTGTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC| 6775
Query 6798 |GAGTACCCGGTGGGGTCGAATTACCTTGCAGGCCGAACCGGACGTAGCCGTGTTGAGC| 6857
Sbjct 6776 |GAGTACCCGGTGGGGTCGAATTACCTTGCAGGCCGAACCGGACGTAGCCGTGTTGAGC| 6835
Query 6858 |TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCCGGGAGAGGTTGGCGAGA| 6917
Sbjct 6836 |TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCCGGGAGAGGTTGGCGAG-| 6894
Query 6918 |GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCGCTCCATCTCTCAA| 6976
Sbjct 6895 |GGGATCACCCCTTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCGCTCCATCTCTCAA| 6954
Query 6977 |GGCAACTTGCACCGCAACCATGACTCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT| 7036
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Sbjct	6955	GGCAACTTGCACCGCTAACCATGACTCCCTTGATGCTGAGCTCATAGAGGCCAACCTCCT	7014
Query	7037	GTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015	ATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7074
Query	7097	TCGTGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075	TCGTGACTCCTTCGATCCGCTTGTGGCAGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157	AGAAATCTCTCGGAAGTCTCGGAGATTCCGCCGGGCCCTGCCCGTCTGGGCGCGGCCGA	7216
Sbjct	7135	AGAAATCTCTCGGAAGTCTCGGAGATTCCGCCAGGCCCTGCCCGTTGGGCGCGGCCGA	7194
Query	7217	CTACAAACCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACACCTGTGGTCCA	7276
Sbjct	7195	CTATAACCCCGCTAGTAGAGACGTGGAAAAAGCCCGACTACGAACACCTGTGGTCCA	7254
Query	7277	TGGCTGCCCGCTACCACTCCACGGTCCCTCTGTGCCCTCCGCCTCGGAAGAACGGTAC	7336
Sbjct	7255	TGGCTGTCGGTTCACCTCCAAAGTCCCTCTGTGCCCTCCGCCTCGGAAGAACGGGAC	7314
Query	7337	GGTGGTCTCTACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCACCAAAAGTTT	7396
Sbjct	7315	GGTGGTCTCTACTGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCACCAAGAGCTT	7374
Query	7397	TGGCAGCTCTCAACTTCCGGCATTACGGGCGACAATACGACAACTCCTCTGAGCCCGC	7456
Sbjct	7375	TGGCAGCTCTCTCAACTTCCGGCATTACGGGCGACAATACGACAACTCCTCTGAGCCCGC	7434
Query	7457	CCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCATTCTTCCATGCCCCCGTGA	7516
Sbjct	7435	CCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCATTCTTCCATGCCCCCGTGA	7494
Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAATGTCAGCGGTCACTAGTGGGGC	7576
Sbjct	7495	GGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCAATGTCAGCGGTCACTAGTGGGGC	7554
Query	7577	CGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATCTCTGGACAGGCGCACTCGTCA	7636
Sbjct	7555	CAACGCGGAGGATGTCGTGTGCTGCTCAATGCTTATCTCTGGACAGGCGCACTCGTCA	7614
Query	7637	CCCGTGGCGTGGCGGAAGAACAATACTGCCCATCAACGCACTGAGCAACTCGTTGCTACG	7696
Sbjct	7615	CCCGTGGCGTGGCGGAAGAACAATACTGCCCATCAATGCACTAAGCAACTCGTTGCTACG	7674
Query	7697	CATACACAATCTGGTGTATTCCACCACCTTACGCAAGTCTTGCCTGAGGAGAGAAAGT	7756
Sbjct	7675	TCACCACAATTTGGTGTATTCCACCACCTTACGCAAGTCTTGCCTGAGGAGAGAAAGT	7734
Query	7757	CACATTGTACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735	CACATTGTACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTACTCAAGGAGGTAA	7794
Query	7817	AGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACGCTGAC	7876
Sbjct	7795	AGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACGCTGAC	7854
Query	7877	GCCCCACAAITCAGCCAAATCAAGTTTGGCTATGGGGCAAAAGACGTCCTGTGCCATGC	7936
Sbjct	7855	GCCCCACAAITCAGCCAAATCAAGTTTGGCTATGGGGCAAAAGACGTCCTGTGCCATGC	7914
Query	7937	CAGAAAGGCCGTAGCCCAATCAACTCCGTGTGGAAGACCTTCTGGAAGACAGTGTAAAC	7996
Sbjct	7915	CAGAAAGGCCGTAAACCACATCAACTCCGTGTGGAAGACCTTCTGGAAGACATGTAAAC	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTCGTTACAGCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTCGTTACAGCTGAGAAGGG	8034
Query	8057	GGTTCGTAAGCCAGCTCGTCTCATCTGTTTCCCCGACCTGGGCGTGCGGTGTGCGAGAA	8116
Sbjct	8035	GGTTCGTAAGCCAGCTCGTCTCATCTGTTTCCCCGATCTGGGCGTGCGGTGTGCGAGAA	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175

Sbjct	8095	GATGGCTTTGTACGACGTGGTTA--CAAGCTCCCCCTGGCCGATGATGGGAAGCTCTACG	8153
Query	8176	GATTTCAATACTACCAAGGACAGCGGTTGAATTCCTCGTGCAAGCGTGGAAAGTCCAAGA	8235
Sbjct	8154	GATTCCAATACTACCAAGGACAGCGGGTGAATTCCTCGTGCAAGCGTGGAAAGTCCAAGA	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214	AAACCCCAATGGGGTTCCTCGTATGATACCCGCTGTTTGACTCCACAGTCACTGAGAGCG	8273
Query	8296	ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCTGG	8355
Sbjct	8274	ACATCCGTACGGAGGAGGCAATTCACCAATGTTGTGACCTGGACCCCCAAGCCCGCTGG	8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAGAGGGGG	8415
Sbjct	8334	CCATCAAGTCCCTCACCGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAGAGGGGG	8393
Query	8416	AAAACATGCGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAACTAGCTGTGGTAACA	8475
Sbjct	8394	AGAACTGCGGCTATCGCAGGTGCCGCGCAGCGGCGTACTGACAACTAGCTGTGGTAACA	8453
Query	8476	CCCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTGAGCGCGCAGGGCTCCAGGACTGCA	8535
Sbjct	8454	CCCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTGAGCGCGCAGGGCTCCAGGACTGCA	8513
Query	8536	CCATGCTCGTGTGTGGCGCAGCACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGG	8595
Sbjct	8514	CCATGCTCGTGTGTGGCGCAGCACTTAGTCGTTATCTGTGAAAGCGGGGGTCCAGGAGG	8573
Query	8596	ACGCGCGGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCG	8655
Sbjct	8574	ACGCGCGGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCG	8633
Query	8656	ACCCGCCAACCAACAGAAATACGACTTGGAGCTTAAACATCATGCTCTCCAAGTGTICAG	8715
Sbjct	8634	ACCCGCCAACCAACAGAAATACGACTTGGAGCTTAAACATCATGCTCTCCAAGTGTICAG	8693
Query	8716	TCGCCACGACGCGCGCTGGAAGAGGGTCTACTACTCTACCCTGACCCGTACACCCCCC	8775
Sbjct	8694	TCGCCACGACGCGCGCTGGAAGAGGGTCTACTACTCTACCCTGACCCGTACACCCCCC	8753
Query	8776	TCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCCTGGCTAGGCAACA	8835
Sbjct	8754	TCGCGAGAGCTCGTGGGAGACAGCAAGACACACTCCAGTCAATTCCTGGCTAGGCAACA	8813
Query	8836	TAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCCTTAGCG	8895
Sbjct	8814	TAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCCTTAGCG	8873
Query	8896	TCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCAGCGAGCCTGCT	8955
Sbjct	8874	TCCTTATAGCCAGGGACAGCTTGAACAGGCCCTCGATTGCGAGATCTACGGGCGCTGCT	8933
Query	8956	ACTCCATAGAACCACTGGATCTACTCCAAATCATTCAAAGACTCCATGGCCTCAGCGCAT	9015
Sbjct	8934	ACTCCATAGAACCACTTGATCTACTCCAAATCATTCAAAGACTCCATGGCCTCAGCGCAT	8993
Query	9016	TTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGATGCCTCAGAAAAAC	9075
Sbjct	8994	TTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCCGATGCCTCAGAAAAAC	9053
Query	9076	TTGGGGTCCCGCCCTTGCAGCTTGGAGACACGGGCCCGAGCGTCCGCGCTAGGCTTC	9135
Sbjct	9054	TTGGGGTACCGCCCTTGCAGCTTGGAGACACGGGCCCGAGCGTCCGCGCTAGGCTTC	9113
Query	9136	TGTCAGAGGAGGACGGGTGCCATATGTGGCAAGTACCTCTCAACTGGGCAGTAAGAA	9195
Sbjct	9114	TGTCAGAGGAGGACGGGTGCCATATGTGGCAAGTACCTCTCAACTGGGCAGTAAGAA	9173
Query	9196	CAAAGCTCAAACCTCACTCAATAGCGGCCGCTGGCCGCTGGACTTGTCCGGTGGTTTCA	9255
Sbjct	9174	CAAAGCTCAAACCTCACTCAATAGCGGCCGCTGGCCGCTGGACTTGTCCGGTGGTTTCA	9233
Query	9256	CGGCTGGCTACAGCGGGGGAGACATTTATACAGCGGTGTCATGCCCCGGGCCGCTGGT	9315

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Sbjct  9234  CGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCCGCTGGA 9293
Query   9316  TCTGGTTTTGCCTACTCTGCTCGCTGCAGGGGTAGGCATCTACCTCTCCCAACCGAT 9375
Sbjct  9294  TCTGGTTTTGCCTACTCTGCTTGTGTCAGGGGTAGGCATCTACCTCTCCCAACCGAT 9353
Query   9376  GAAGGTTGGGGTAAACACTCCGGCCT 9401
Sbjct  9354  GAAGGTTGGGGTAAACACTCCGGCCT 9379

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>dbj|E08264.1| cDNA of Hepatitis C virus, HC-J1
Length=9502

Score = 1.487e+04 bits (8052), Expect = 0.0
Identities = 9024/9503 (94%), Gaps = 27/9503 (0%)
Strand=Plus/Plus

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Query   1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCIGTAGGGAAGTACTG 60
Sbjct   1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCIGTAGGGAAGTACTG 60

Query   61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGCAGCCTCCAGGAC 120
Sbjct   61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGCAGCCTCCAGGAC 120

Query   121     ccccccTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Sbjct   121     CCCCCCTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180

Query   181     GACGACCGGGTCTCTTTCTTGATAAAACCGCTCAATGCCTGGAGATTTGGGCGTGCCCC 240
Sbjct   181     GACGACCGGGTCTCTTTCTTGATAAAACCGCTCAATGCCTGGAGATTTGGGCGTGCCCC 240

Query   241     GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTGTGGTACTGCTGATAGG 300
Sbjct   241     GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTGTGGTACTGCTGATAGG 300

Query   301     GTGCTTGCAGAGTGCCCGGAGGTTCTGCTAGACCGTGACCATGAGCAGCAATCCTAAAC 360
Sbjct   301     GTGCTTGCAGAGTGCCCGGAGGTTCTGCTAGACCGTGACCATGAGCAGCAATCCTAAAC 360

Query   361     CTCAAAGAAAAACAAACGTAACACCAACCGTCGCGCCACAGGACGTCAAGTTCCTGGGTG 420
Sbjct   361     CTCAAAGAAAAACAAACGTAACACCAACCGTCGCGCCACAGGACGTCAAGTTCCTGGGTG 420

Query   421     GCGGTACAGATCGTTGGTGGAGTTTACTTGTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC 480
Sbjct   421     GCGGTACAGATCGTTGGTGGAGTTTACTTGTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC 480

Query   481     GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGAGCTAGCCTATCCCCA 540
Sbjct   481     GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGAGCTAGCCTATCCCCA 540

Query   541     AGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTTGGCCCCCTATG 600
Sbjct   541     AGGTGCGTTCGCGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCTTTGGCCCCCTATG 600

Query   601     GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGCT 660
Sbjct   601     GCAATGAGGGTTCGCGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGCT 660

Query   661     GGGGCCCCACAGACCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATAACCTTA 720
Sbjct   661     GGGGCCCCACGAGACCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATAACCTTA 720

Query   721     CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGCGCGCCCTCTTGAGAGGG 780
Sbjct   721     CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGCGCGCCCTCTTGAGAGGG 780

Query   781     CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCTGAACATGCAACAG 840
Sbjct   781     CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCTGAACATGCAACAG 840

Query   841     GGAACCTTCCTGGTTGCTCTTCTCTATCTTCTCTGCGCCTGCTCTCTTGCTGACTG 900

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Sbjct 841      |GGAACTTCCTGGTTGCTCTTTCTCTATCTTCCTTCGCGCCCTGCTCTCTTGCTGACTG| 900
Query 901      |TGCCCGCTTCAGCTACCAAGTGCACAATTCCTCGGGGCTTTACCATGTACCAAAATGATT| 960
Sbjct 901      |TGCCCGCTTCAGCTACCAAGTGCACAATTCACAGGGCTTTATCATGTACCAAAATGATT| 960
Query 961      |GCCCTAACTCGAGTATTGTGTACGAGGCGGC-CGATGCCATCTGCACACTCCGGGGTGT| 1019
Sbjct 961      |GCCCTAACTCGAGTATTGTGTACGAGGCG-CACGATGCCATCTGCATACTCCGGGGTGT| 1019
Query 1020     |GTCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG| 1079
Sbjct 1020     |GTCCCTTGCGTTTCGCGAGGGCAACGCTCGAGGTGTTGGGTGGCGATGACCCCCACGGTA| 1079
Query 1080     |GCCACAGGGAGCGGCAAACTCCCCACAACGACGCTTCGACGTATATCGATCTGCTTGTC| 1139
Sbjct 1080     |GCCACAGGGAGCGGCAAACTCCCCGCGACGACGCTTCGACGTACATCGATCTGCTTGTC| 1139
Query 1140     |GGGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTT| 1199
Sbjct 1140     |GGGAGCGCCACCCCTCTGTTTCGGCCCTCTACGTGGGGGATCTGTGCGGGTCCGCTTTCCTT| 1199
Query 1200     |GTTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGT| 1259
Sbjct 1200     |ATTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACAACGCAAGGCTGCAATTGT| 1259
Query 1260     |TCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAGTGG| 1319
Sbjct 1260     |TCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAGTGG| 1319
Query 1320     |TCCCTACGGCGAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAACAGCCATCATGGAC| 1379
Sbjct 1320     |TCCCTACGGCGGCGTTGGTAAATGGCTCAGCTGCTCCGGATCCCAACAGCCATCTTGGAT| 1379
Query 1380     |ATGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGGATACGCGTATTTCTCCATGGTGGGG| 1439
Sbjct 1380     |ATGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGGATACGCGTATTTCTCCATGGTGGGG| 1439
Query 1440     |AACTGGGCGAAGGTCTTGGTAGTGCTGCTGCTATTGTCGGCGCTCGACGCGGAAACCA-| 1498
Sbjct 1440     |AACTGGGCGAAGGTCTTGGTAGTGCTGTTGCTGTTTGCCTGGCGCTCGACGCGGAAACC-AT| 1498
Query 1499     |CGTCACCGGGGGA-AATGCCGGCGCACACGGCTGGGCTTGTGGTCTCCTT-ACACCA| 1556
Sbjct 1499     |CGTCTCGGGGGACAA-GCCGCCGCGCCATGCTGGACTTGTAGTCTC-TTCACACCA| 1556
Query 1557     |GGCGCAAGGAGCAACATCCAAGTATCAACACCAACGGCAGTTGGCAGCATCAATAGCAGC| 1616
Sbjct 1557     |GGCGTAAGCAGAACATCCAGCTGATCAACACCAACGGCAGTTGGCAGCATCAATAGCAGC| 1616
Query 1617     |GCCTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCT-TCTATCAACA| 1675
Sbjct 1617     |GCCTTGAAGTCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCT-TATCTATCAACA| 1675
Query 1676     |CAAATTCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCTTACCGATT| 1735
Sbjct 1676     |CAAATTCAACTCTTCGGGCTGTCCGAGAGGTTGGCCAGCTGCCGACGCTTACCGATT| 1735
Query 1736     |TGCCAGGGCTGGGGCTCTATCAGTTATGCAACGGAAGCGGGCTCGACGAACGCCCTTA| 1795
Sbjct 1736     |TGACCAGGGCTGGGGCTCTATCAGTATGCCAACGGAAGCGGCCCCGACCAACGCCCTTA| 1795
Query 1796     |CTGCTGGACATACCTTCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCC| 1855
Sbjct 1796     |TGTGTGGACATACCCCCCAAAACCTTGGCGTATCGTGCCCGCAAGAGCGTATGTGGCCC| 1855
Query 1856     |GGTATATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACGACAGGTGGGCGCGCC| 1915
Sbjct 1856     |GGTATATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACGACAGGTGGGCGCGCC| 1915
Query 1916     |TACCTACAGCTGGGGTGCAATGATACGGATGCTCTCGTCTTAAACAACACAGGCCACC| 1975
Sbjct 1916     |TACCTACAGCTGGGGTGCAATGATACGGAGCTCTCTCGTCTTAAACAACACAGGCCACC| 1975
Query 1976     |GCTGGGCAATTGGTTTCGGTTGACCTGGATGAACCTCAACTGGATTACCAAAGTGTGCGG| 2035

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Sbjct 1976  |||||
GCTGGGCAATTGGTTCGGTTGCACCTGGATGAACCTCAACTGGATTACCAAGGTATGCGG 2035
Query 2036  AGCGCCCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTTCGCCCACTGATTG 2095
Sbjct 2036  AGCGCCTCCTTGTGTCATTGAGGGGGGGGCAACAACACCTGCACCTGCCCACTGATTG 2095
Query 2096  CTTCGCGAACAATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACC 2155
Sbjct 2096  TTTCCGCAAGCATCCGGAAGCCACATACTCTCGGTGCGGCTCTGTTCCCTGGATACACC 2155
Query 2156  CAGGTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTTGACCATCAATTACAC 2215
Sbjct 2156  CAGATGCCTGGTCGACTATCCATATAGGCTTTGGCATTACCCCTTGACCATCAACTATAC 2215
Query 2216  CATATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGCCCTGCAA 2275
Sbjct 2216  CATTTTTAAAGTTAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGATGCTGCCTGCAA 2275
Query 2276  CTGGACGCGGGGCGAAGCTGTGATCTGGAAGACAGGACAGGCTCCGAGCTCAGCCCGTT 2335
Sbjct 2276  CTGGACGCGGGGCGAAGCTTGCATCTGGAAGATAGGACAGGCTCCGAGCTCAGCCCGTT 2335
Query 2336  GCTGCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCCTGCCAGCCTT 2395
Sbjct 2336  GCTGCTGTCCACCACAGCAGTGGCAGGTCCTTCCGTGTTCTTACGACCCCTGCCAGCCTT 2395
Query 2396  GTCCACCGGCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGT 2455
Sbjct 2396  GTCCACCGGCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGT 2455
Query 2456  AGGGTCAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTGTTCTCCTGTTCTTCT 2515
Sbjct 2456  GGGGTCAAGCATCGCGTCTCTGGGCCATCAAGTGGGAGTACGTGTTCTCCTGTTCTTCT 2515
Query 2516  GCTTGACAGACGCGCGGCTGCTCTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGA 2575
Sbjct 2516  GCTTGACAGACGCGCGGCTGCTCTCTGCTTGTGGATGATGCTACTCATATCCCAAGCGGA 2575
Query 2576  GCGCGCTTTGGAGAACTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGC-ACGGTC 2634
Sbjct 2576  GCGCGCTTTGGAGAACTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCGA-GGTC 2634
Query 2635  TTGTGTCCTTCCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGATAGGTGGGTGCCG 2694
Sbjct 2635  TTGTATCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGATAGGTGGGTGCCG 2694
Query 2695  GAGCGGCTACGCCCTCTACGGGATGTGGCTCTCTCTGCTCTCTGTCGGCGTGGCTTC 2754
Sbjct 2695  GAGCGGCTACGCCCTCTACGGGATGTGGCCCTGCTCTCTGCTCTGTTAGCGTGGCCCC 2754
Query 2755  AGCGGGCATACGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGGCGTTGTTCTTGTG 2814
Sbjct 2755  AGCGGGCATACGCGTTGGACACGGAGGTGGCCGCGTCTGTGGCGGCGTTGTTCTTGTG 2814
Query 2815  GGTTAATGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGATGTGGT 2874
Sbjct 2815  GGTTAATGGCGCTGACCTGTCAACATATTACAAGCGCTGATCAGCTGGTGCTATGCT 2874
Query 2875  GGCTTCAGTATTTTCTGACAGAGTAGAAGCGCAACTGCAGTGTGGGTTCACCGGCTCA 2934
Sbjct 2875  GGCTTCAGTATTTTCTGACAGAGTAGAAGCGCAATTGCAGTGTGGGTTCACCGGCTCA 2934
Query 2935  ACGTCCGCGGCGCGGATGCCGTCACTTACTCATGTGTGTAGTACACCGACCCCTGG 2994
Sbjct 2935  ACGTTCGAGGAGGGGCGGACGCCGTCACTTACTCATGTGTGTGTACACCGCACTCTGG 2994
Query 2995  TATTTGACATACCAAACTACTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCA 3054
Sbjct 2995  TATTTGACATACCAAACTACTGCTGGCGCTCTGGGACCCCTTTGGATTCTTCAAGCCA 3054
Query 3055  GTTTGCTTAAAGTCCCTACTTCTGTCGCGGTTCAAGGCCCTTCTCCGGATCTGCGCGCTAG 3114
Sbjct 3055  GTTTGCTTAAAGTACCTACTTCTGTCGCGGTTCAAGGCCCTTCTCCGGATCTGCGCGCTAG 3114
Query 3115  CGCGGAAGATAGCCGAGGTCATTACGTGCAATGGCCATCATCAAGTTAGGGGCGCTTA 3174

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Sbjct	3115	CGCGGAAGATGGTCGGAGGCCATTACGTGCAAAATGGCTATCATCAAGTTAGGGCGCGCTTA	3174
Query	3175	CTGGCACTTATGTGTATAAACCATCTACCCCTCTTCGAGACTGGGCGCACAAACGGCTGC	3234
Sbjct	3175	CTGGCACTTATGTTTATAATCACTGACTCCTCTTCGGGACTGGGCGCACAAACGGCTGC	3234
Query	3235	GAGATCTGGCCGTGGCTGTGGAACCACTGCTCTTCTCCGAATGGAGACCAAGCTCATCA	3294
Sbjct	3235	GAGACCTGGCCGTGGCGTAGAGCCAGTCTGCTTCTCCCAATGGAGACCAAGCTCATCA	3294
Query	3295	CGTGGGGGGCAGATACCGCCGCGTGGGTGACATCATCAACGGCTTGCCCGTCTCTCGCC	3354
Sbjct	3295	CGTGGGGGGCGGACACCGCCGCGTGGGTGACATCATCAACGGCTTGCCCGTCTCTCGCC	3354
Query	3355	GTAGGGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGT	3414
Sbjct	3355	GTAGGGGCCGGGAGATACTGCTCGGACCAGCCGATGGAAATGGTCTCCAAGGGGTGGAGGT	3414
Query	3415	TGCTGGCGCCCATCAGGGCGTACGCCAGCAGACGAGAGGGCTCTTAGGGTGTATAATCA	3474
Sbjct	3415	TGCTGGCGCCCAATACGGCGTACGCCAGCAGACAAGGGGCTCTTAGGGTGTATAATCA	3474
Query	3475	CCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTG	3534
Sbjct	3475	CCAGCCTAACTGGCCGGGATAAAAAACCAAGTGGAGGGCGAGGTCCAGATTGTGTCAACTG	3534
Query	3535	CTACCCAAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAACGGGG	3594
Sbjct	3535	CTGCCCAAACCTTTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAACGGGG	3594
Query	3595	CCGGAACGAGGACCATCGCATCACCCAAAGGTCCTGTCATCCAGATGTATACCAATGTGG	3654
Sbjct	3595	CCGGAACGAGGACCATCGCATCACCCAAAGGTCCTGTTATCCAGATGTATACCAACGTAG	3654
Query	3655	ACCAAGACCTTGTGGGCTGGCCCGCTCTCAAGGTTCGCGCTCAATTGACACCTTGACTCT	3714
Sbjct	3655	ACCAAGACCTCGTTGGCTGGCCCGCTCTCAAGGTGCCCGCTATTGACACCTTGACCTT	3714
Query	3715	GCGGCTCTCTGGGACCTTTACTTGGTCAGAGGCACGCGATGTCAITCCCGTGGCCGGCG	3774
Sbjct	3715	GCGGCTCTCTGGGACCTTTACTTGGTCAGAGGCACGCGATGTCAITCCCGTGGCCGGCG	3774
Query	3775	GAGGTGATAGCAGGGGTAGCCTGCTTTGCGCCCGGGCCATTTCCTACTTTGAAAGGCTCT	3834
Sbjct	3775	GGGGTGATAGCAGGGGACGCTGCTGTCAACCGGCCATTTCCTACTTTGAAAGGCTCT	3834
Query	3835	CGGGGGGTCCGCTGTGTGTGCCCGGGGACACGCCGTGGGCCTATTACGGGCCGCGTGT	3894
Sbjct	3835	CGGGGGGTCCGCTGTGTGTGCCCGGGGACAGCTGTAGGCATATTACGGGCCGCGTGT	3894
Query	3895	GCACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCA	3954
Sbjct	3895	GCACCCGTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAGCCTAGAGACAACCA	3954
Query	3955	TGAGATCCCCGGTGTTACGGGCAACTCCTCTCACCAGCAGTGCACAGAGCTTCCAGG	4014
Sbjct	3955	TGAGGTCCCCGGTGTTTACGGGCAACTCCTCTCACCAGCAGTGCACAGAGCTTCCAGG	4014
Query	4015	TGGCCACCTGCATGCTCCACCGGCAGCGGTAAAGAGACCAAGGTCCTCGGCTGCGTACG	4074
Sbjct	4015	TGGCCACCTGCATGCTCCACCGGCAGCGGTAAGAGACCAAGGTCCTCGGCTGCATATG	4074
Query	4075	CAGCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTG	4134
Sbjct	4075	CAGCTCAGGGCTATAAGGTGCTAGTGCTCAACCCCTCTGTTGCCGCAACACTGGGCTTTG	4134
Query	4135	GTGCTTACATGTCCAAGGCCATGSGGGTGATCCTAATATCAGGACCGGGGTGAGAACAA	4194
Sbjct	4135	GTGCTTACATGTCCAAGGCCACGGGATGATCACTAATATCAGGACCGGGGTGAGAACAA	4194
Query	4195	TTACCTTGGCAGCCCATCACTGACTCACTACCGCAAGTTCCTTGCTGAGCGCGGGT	4254
Sbjct	4195	TTACCTTGGCAGCCCATCACTGACTCTACCTACCGCAAGTTCCTTGCTGATGGCGGGT	4254
Query	4255	GCTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCATCCAGGATGCCACAT	4314

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Sbjct 4255      |||||
GCTCGGGGGGCGCTTATGACATAATAATTGTGTACGAGTGCCACTCCACGGATGCCACAT 4314
Query 4315      |||||
CCATCTTGGGCGATCGGCACGTCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTG 4374
Sbjct 4315      |||||
CCGTCTTGGGCGATCGGTACCGTCTTGACCAAGCAGAGACCGCGGGGGCGAGACTGGTTG 4374
Query 4375      |||||
TGCTCGCCACTGTACCCCTCCGGGCTCCG-TCACTGTGCCAT-CCTAACATCGAGGA 4432
Sbjct 4375      |||||
TGCTCGCCACCGCCACCCCTCCGGGCTC-GATCACCGTGCCCATGCC-AACATCGAGGA 4432
Query 4433      |||||
GGTTGCTCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGT 4492
Sbjct 4433      |||||
GGTCGCTCTGTCCACCACCGGAGAGATCCCATTTTACGGCAAGGCTATCCCCCTCGAAGC 4492
Query 4493      |||||
GATCAAGGGGGGAAGCAATCTCACTCTGTGCCACTCAAGAAAGAGTGCAGGACTCCG 4552
Sbjct 4493      |||||
AATCAAGGGGGGGAGACATCTCATTTTCTGTGCCACTCAAAAAAAAAAGTGTGACGACTCCG 4552
Query 4553      |||||
CGCGAAGCTGGTCGATTGGGCATCAATGCCGTGGCCCTACTACCGCGGTCTTGACGTGTC 4612
Sbjct 4553      |||||
CGCGAAGCTGGTCGATTGGGCATCAATGCTGTGGCCCTACTACCGCGGTCTTGACGTGTC 4612
Query 4613      |||||
TGTCATCCCGACCAAGCGGCGATGTTGTGTCGTGTCGACCGATGCTCTCATGACTGGCTT 4672
Sbjct 4613      |||||
TGTCATCCCGACCAAGCGGCGATGTTGTTGTCGTGGCAACTGATGCTCTCATGACTGGCTA 4672
Query 4673      |||||
TACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATT 4732
Sbjct 4673      |||||
TACCGGCGACTTCGACTCGGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATT 4732
Query 4733      |||||
CAGCCTTGACCTTACCTTTACCATTTAGAGCAACACCGTCCCCCAGGATGCTGTCTCCAG 4792
Sbjct 4733      |||||
CAGCCTTGACCTTACCTTTACCATTTAGAGCAACACCGTCCCCCAGGATGCTGTCTCCCG 4792
Query 4793      |||||
GACTCAACGCCCGGGGAGGACTTGGCAGGGGGAAGCCAGGATCTATAGATTGTGGCACC 4852
Sbjct 4793      |||||
CACTCAGGCTCGGGGAGGACTTGGCAGGGGGAAGCCAGGATCTATAGATTGTGGCACC 4852
Query 4853      |||||
GGGGGAGCGCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACCGGG 4912
Sbjct 4853      |||||
GGGGGAGCGCTCTTCCGGCATGTTGACTCGTCCATCTCTGTGAGTGCTATGACACGGG 4912
Query 4913      |||||
CTGTGCTTGGTATGAGCTACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAA 4972
Sbjct 4913      |||||
CTGTGCTTGGTATGAGCTACGCCCGCCGAGACTACAGTTAGGCTGCGAGCGTACATGAA 4972
Query 4973      |||||
CACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAAATTTGGGAGGGCGCTTTACGGG 5032
Sbjct 4973      |||||
CACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAAATTTGGGAGGGCGCTTTACAGG 5032
Query 5033      |||||
CCTCACTCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTCC 5092
Sbjct 5033      |||||
CCTCACCATATAGATGCCCACTTCCATCCAGACAAAGCAGGTTGGGGAGAACTTCC 5092
Query 5093      |||||
TTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGCGTCAAGCCCCCTCCCCATCGTG 5152
Sbjct 5093      |||||
TTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGCGTCAAGCCCCCTCCCCATCGTG 5152
Query 5153      |||||
GGACCAGATGTGGAAGTGTGATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCT 5212
Sbjct 5153      |||||
GGACCAGATGTGGAAGTGTGATCCGCCTTAAACCCACCTCCATGGGCCAACACCTCT 5212
Query 5213      |||||
GCTATACAGACTGGGCGCTGTTTCAAGATGAAGTCAACCTGACGCACCAATCACCATAA 5272
Sbjct 5213      |||||
GCTATACAGACTGGGCGCTGTTTCAAGATGAAGTCAACCTGACGCACCAAGTACCAATA 5272
Query 5273      |||||
CATCATGACATGATGTGCGCCGACCTGGAGGTGCTCAGGACACTGGGTGCTCGTTGG 5332
Sbjct 5273      |||||
CATCATGACATGATGTGCGCCGACCTGGAGGTGCTCAGGACACTGGGTGCTCGTTGG 5332
Query 5333      |||||
CGGCGTCTTGCTGCTCTGCGCCGCTATTGCTGTCAACAGGCTGCGTGGTTCATAGTGG 5392
Sbjct 5333      |||||
CGGCGTCTTGCTGCTCTGCGCCGCTATTGCTGTGACAGGCTGCGTGGTTCATAGTGG 5392
Query 5393      |||||
CAGGATCGTCTTGTCGGGAAGCCGCAATTATACCTGACAGGAGGTTCTTACCAGGA 5452

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Sbjct	5393	CAGGATTGCTCTTGCTCCGGGAGGCCGGCAATCATACGACAGCGGAAGTCTCTACCCGGA	5452
Query	5453	GTTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGATGATGCT	5512
Sbjct	5453	GTTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTATATCGAACAAGGATGATGCT	5512
Query	5513	CGCTGAGCAGTTCAAGCAGAAAGGCCCTCGCCCTCTGCAGACCGCGTCCCGCCATGCAGA	5572
Sbjct	5513	CGCCGAGCAGTTCAAGCAGAAAGGCCCTCGCCCTCTGCAGACCGCGTCCCGCCAGGAGAGA	5572
Query	5573	GGTTATCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGCGGAAGCA	5632
Sbjct	5573	GGTTATCGCCCTACTGTGCTCAAACTCGGCAAACTCGAGGCTTCTGGCGGAAGCA	5632
Query	5633	CATGTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGTGTA	5692
Sbjct	5633	TATGTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGTGCA	5692
Query	5693	CCCCGCCATTGCTTCATTGATGGCTTTTACAGTGCCTGCACAGCCACTAACCACTGG	5752
Sbjct	5693	CCCCGCCATTGCTTCATTGATGGCTTTTACAGTGTCTGTCAACAGCCACTAACCACTAG	5752
Query	5753	CCAAACCCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGG	5812
Sbjct	5753	CCAAACCCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCTCAGCTCGCCGCCCCCGG	5812
Query	5813	TGCCGCTACTGCCCCCTTGTGGG-TGCTGGCCTAGCTGGCGCGCCACTCGGCAGCGTTGGAC	5871
Sbjct	5813	TGCCGCCACCGCCCCCTTGTGGGCTC-GGCTTGGCTGGCGCGCCGCTCGGCAGTGTGGAC	5871
Query	5872	TGGGAAGGTCTCGTGGACATCTTTCAGGGGTATGGCGCGGGCGTGGCGGGAGCTCTTG	5931
Sbjct	5872	TGGGAGGGTCTCGTGGACATCTTTCAGGGGTATGGCGCGGGCGTGGCGGGGCTCTTG	5931
Query	5932	TAGCAATTCAAGATATGAGCGGTGAGGCTCCCTCCACAGGAGACCTGGTCAATCTGCTG	5991
Sbjct	5932	TAGCAATTAAAAATCATAGCGGTGAGCTCCCTCCACAGAGACCTGGTCAATCTACTGC	5991
Query	5992	CCGCCATCTCTCGCCTGAGGCCCTTGTAGTCGGTGGTGTGCGCAGAAATCATGCGCC	6051
Sbjct	5992	CCGCCATCTCTCGCCTGAGGCCCTTGTAGTCGGTGGTGTGTCGGGCAATCATGCGCC	6051
Query	6052	GGCACGTTGGCCCGGGCAGGGGGGCGTGAATGGAATGAACCGGCTAATAGCCTTCGCCT	6111
Sbjct	6052	GGCACGTCGGCCCGGGCAGGGGGGCGTGCAGTGAATGAACCGGCTAATAGCCTTCGCCT	6111
Query	6112	CCCGGGGAACCATGTTTCCCCACGCACACTAGTGCGGAGAGCGATGCAGCCGCCCGG	6171
Sbjct	6112	CCCGAGGGGAACCATGTTTCCCCACGCACACTAGTGCGGAGAGCGATGCAGCTGCCCGG	6171
Query	6172	TCACTGCCATACTCAGAGCCTCACTGTAAACAGCTCCTGAGGCGACTGCATCAGTGA	6231
Sbjct	6172	TCACTGCCATACTCAGAGCCTCACTGTGACCCAGCTCCTGAGGCGACTACACCACTGGC	6231
Query	6232	TAGCTTCGGAGTGTACCACTCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTTGA	6291
Sbjct	6232	TAGCTTCGGAGAGCACTACCATGCTCCGGCTCCTGGCTAAGGGACATCTGGGACTTGA	6291
Query	6292	TATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAATGC	6351
Sbjct	6292	TATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTAAAAACCAAGCTCATGCCACAATGC	6351
Query	6352	CTGGGATTCCCTTTGTGCTCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCA	6411
Sbjct	6352	CTGGGATTCCCTTTGTGCTCTGCCAGCAGCGGTATAGGGGGGTCTGGCGGGGAGACGGCA	6411
Query	6412	TTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAACGGGACGA	6471
Sbjct	6412	TTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAACGGGACGA	6471
Query	6472	TGAGGATCGTGGCTCTTAGGACCTCAGGAACATGTGGAGTGGGACGTTCCCCATTAAAG	6531
Sbjct	6472	TGAGGATCGTGGCTCTTAGGACCTTAGGAACATGTGGAGTGGGACCTTCCCCATTAAAG	6531
Query	6532	CCTACACCACGGGGCCCTGTACTCCCTTCTGCGCGGAATATAAGTTTCGCGCTGTGGA	6591

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Sbjct 6532      |||
CCTACACCACGGGCCCTGTACTCCCTTCTTGCGCCGAACACACGTTCCGCGTATGGA 6591
Query 6592      |||
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Sbjct 6592      |||
GGGTGTCTGTCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTGA-CA 6650
Query 6651      |||
GGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACA 6710
Sbjct 6651      |||
GGCATGACTACTGATAATCTCAAATGCCCGTGCCAGGTCCCATCGCCCGAATTTTTCACA 6710
Query 6711      |||
GAATTGGACGGGGTGCCTACACAGGTTTGCGCCCTTTCGAAGCCCTTGCTGCGGGAG 6770
Sbjct 6711      |||
GAATTGGACGGGGTGCCTACATAGGTTTGCGCCCTTTCGAAGCCCTTGCTGCGGGAG 6770
Query 6771      |||
GAGGTATCAITCAGAGTAGGACTCCACGAGTACCGGTGGGGTCGAATTACCTTGCAG 6830
Sbjct 6771      |||
GAGGTATCAITCAGGTTAGGACTCCACGATTACCGGTGGGGTCGAATTACCTTGCAG 6830
Query 6831      |||
CCCGAACCGGACGTAGCCGTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCA 6890
Sbjct 6831      |||
CCCGAACCGGACGTAGCCGTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCA 6890
Query 6891      |||
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Sbjct 6891      |||
GCGGCGGCCGGGAGAGGTTGGCGAG-GGGATACCCCTTCTGA-GGCCAGCTCCTCGG 6948
Query 6949      |||
CTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGACCCGCCAACCATGACTCCCTG 7008
Sbjct 6949      |||
CTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGACCCATCAACCATGACTCCCTG 7008
Query 7009      |||
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Sbjct 7009      |||
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Query 7069      |||
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Sbjct 7069      |||
GGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGG 7128
Query 7129      |||
AGGATGAGCGGGAGGTTCCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTCGCC 7188
Sbjct 7129      |||
AGGACGAGCGGGAGATCTCCGTGCCCGCAGAAATCCTGCGGAAGTCTCGGAGATTCACC 7188
Query 7189      |||
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Sbjct 7189      |||
AGGCCCTGCCCTATTGGCGCGGCGGACTATAACCCCCCGCTGA-TAGAGCTGGAAA 7247
Query 7248      |||
AAGCCTGACTACGAACCACTGTGGTCCATGGCTGCCCGCTACCACTCCACGGTCCCCT 7307
Sbjct 7248      |||
AAGCCTAACTATGAACCACTGTGGTCCATGGCTGTCGGCTTCCACTCCACAGTCCCCT 7307
Query 7308      |||
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Sbjct 7308      |||
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Query 7368      |||
GCCTTGGCCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGC 7427
Sbjct 7368      |||
GCCTTGGCCGAGCTTGCCGCTAAAAGTTTGGCAGTTCTCAACTTCCGGCATTACGGGC 7427
Query 7428      |||
GACAATACGACACATCTCTGAGCCCGCCCTTCTGGCTGCGCGCGGACTCCGACGTT 7487
Sbjct 7428      |||
GACAATACGACACGCTCTCTGAGCCCGCCCTTCTGGCTGTTCCCGAGACTCCGACGCT 7487
Query 7488      |||
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Sbjct 7488      |||
GAGTCCTATTCTTCCATGCGCCCTTGGAGGGGAGGCTGGGGATCCGGATCTCAGCGAC 7547
Query 7548      |||
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Sbjct 7548      |||
GGGTATGGTGCAGGTCAGTAGTAGGGCCCGACGGAAGACGTTGTGTGCTGCTCAATG 7607
Query 7608      |||
TCTTATTCTGGACAGGCGCACTCGTACCCCGTGCCTGCGGAAGAACAAAAATGCC 7667
Sbjct 7608      |||
TCTTATCTTGGACAGGCGCACTTATCACCCGTGCGCGCGGAAGAACAAAAATGCC 7667
Query 7668      |||
ATCAACGCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTCA 7727

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Sbjct	7668		ATTAACGCACTGAGCAACTCGTTGCTACGTCACCCACAACCTGGTGTACTCCACCACCTCA	7727
Query	7728		CGCAGTGCCTTGCCAAAGGCAGAAAGATCACAATTGACAGACTGCAAGTTCTGGACAGC	7787
Sbjct	7728		CGCAGTGCCTTGCCAAAGGCAGAAAGATCACAATTGACAGACTGCAAGTTCTGGACAGC	7787
Query	7788		CATTACCAGGACGTGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTG	7847
Sbjct	7788		CACTACCAGGACGTGCTCAAGGAGGTAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTG	7847
Query	7848		CTATCCGTAGAGGAAGCTTGCAGCCTGACGCCCCACATTACGCAAAATCCAAGTTTGGC	7907
Sbjct	7848		CTATCCGTAGAGGAAGCTTGCAGCCTGACGCCCCCGCACTACGCAAAATCCAAGTTTGGC	7907
Query	7908		TATGGGGCAAAGACGTCGCTTGCCATGCCCAGAAAGGCCGTAGCCCAATCAACTCCGTG	7967
Sbjct	7908		TATGGGGCAAAGACGTCGCTTGCCATGCCCAGAAAGGCCGTAAACCAATCAACTCCGTG	7967
Query	7968		TGGAAGACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATATGGCCAAAGAAC	8027
Sbjct	7968		TGGAAGACCTTCTGGAAGACAGTGTAACACCAATAGAACTACCATATGGCTAAGAAC	8027
Query	8028		GAGGTTTTCTGCGTTTACGCTGAGAAAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTTC	8087
Sbjct	8028		GAGGTTTTTTTTCGCTTACGCTGAGAAAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTTC	8087
Query	8088		CCCGACCTGGGCGTGCCTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTC	8147
Sbjct	8088		CCCGATCTGGGTGTCGCGGTGTCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTC	8147
Query	8148		CCCTTGGCGGTGATGGGAAGCTCCTACGGATTCCAATACTACACGAGCAGCGGGTTGAA	8207
Sbjct	8148		CCCCGGCGGTGATGGGAAGCTCCTACGGATTCCAATACTACACGAGCAGCGGGTTGAG	8207
Query	8208		TTCTCTGTGCAAGCGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGC	8267
Sbjct	8208		TTCTCTGTGCAAGCGTGAAGTCCAAGAGGACCCCAATGGGGTTCTCGTATGATACCCGC	8267
Query	8268		TGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGT	8327
Sbjct	8268		TGCTTTGACTCCACAGTCACTGAGAGCGATATCCGTACGGAGGAGGCAATCTACCAATGT	8327
Query	8328		TGTGACCTGGACCCCCAAGCCCGGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTT	8387
Sbjct	8328		TGTGACCTGGACCCCCAAGCCCGGTGGCCATCAGGTCCCTCACTGAGAGGCTTTATGTT	8387
Query	8388		GGGGGCCCTCTTACCAATCAAGGGGGGAAACTCGCGCTACCGCAGGTGCCGCGGAGC	8447
Sbjct	8388		GGGGGCCCTCTTACCAACTCAAGGGGGGAGAACTCGCGGTATCGCAGGTGCCGTCGAGC	8447
Query	8448		GGCGTACTGACAACTAGCTGTGGTAAACCCCTCACTTGCTACATCAAGGCCGGGGCAGCC	8507
Sbjct	8448		GGCGTACTGACAAACAGCTGTGGTAAACCCCTCACTTGCTACATCAAGGCCGGGGCAGCC	8507
Query	8508		TGTCGAGCCGAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCAGCAGCTTAGTCGTT	8567
Sbjct	8508		TGTCGAGCCGAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGTGGCAGCAGCTTAGTCGTT	8567
Query	8568		ATCTGTGAAAGTGCAGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGAGAGGT	8627
Sbjct	8568		ATCTGTGAGAGTGCAGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGAGAGGT	8627
Query	8628		ATGACCAAGTACTCCGCTCCCCCGGGGACCCCCCAACCAAGAAATACGACTTGGAGCTT	8687
Sbjct	8628		ATGACCAAGTACTCCGCTCCCCCGGGGACCCCCCAACCAAGAAATACGACTTGGAGCTT	8687
Query	8688		ATAACATCATGCTCCTCCAACGTGTCACTCGCCACGACGCGCTGGAAGAGGGTCTAC	8747
Sbjct	8688		ATAACATCGTGCTCCTCTAACGTGTCACTCGCCACGATGGCACTGGAAGAGGGTCTAT	8747
Query	8748		TACCTTACCCGTGACCTACAACCCCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACAC	8807
Sbjct	8748		TACCTTACCCGTGACCTACAACCCCCCTCGCGAGAGCCGCTGGGAGACAGCAAGGCAC	8807
Query	8808		ACTCCAGTCAATTCTTGCTAGGCAACATAATCATGTTGCCCCACACTGTGGGCGAGG	8867

Query	1	GCCAGCCCTGATGGGGGCGACACTCCACATGAATCACTCCCCTGTGAGGAACACTCTG	60
Sbjct	1	GCCAGCCCTGATGGGGGCGACACTCCACATGAATCACTCCCCTGTGAGGAACACTCTG	60
Query	61	TCTTCACGAGAAAACGCTTAGCATGGCGTTAGTATGAGTGTCTGTGACGCTTCAGGAAC	120
Sbjct	61	TCTTCACGAGAAAACGCTTAGCATGGCGTTAGTATGAGTGTCTGTGACGCTTCAGGAAC	120
Query	121	ccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCTTCTTGGATAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCCC	240
Sbjct	181	GACGACCGGGTCTTCTTGGATAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCCC	240
Query	241	GCAAGACTGCTAGCCAGTAGTGTGGGTGCGGAAAGCCCTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCAGTAGTGTGGGTGCGGAAAGCCCTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGGCAGTGCCCGGGAGGCTCTGCTAGACCGTGACCATGAGCAGCAATCCTAAAC	360

Sbjct	301	GTGCTTGGCAGTGGCCCGGAGGCTCTGTAGACCGTGACCATTGACGACGATTCCCAAC	360
Query	361	CTCAAGAAAAAACCAACGTAACACCAACCGTCGCCACAGGACGCTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAGAAAAAACCAACGTAACACCAACCGTCGCCACAGGACGCTCAAGTTCCCGGGTG	420
Query	421	GCGGTGAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTGAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGTGCGTGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCTGTCTCCCGTGGCTCTCGGCCCTAGCT	660
Sbjct	601	GCAATGAGGGCTGCGGGTGGCGGGATGGCTCTGTCTCCCGTGGCTCTCGGCCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCCGGCTAGGTCGGCAATTGGGTAAGGTCATCGATACCCCTTA	720
Sbjct	661	GGGGCCCCACGACCCCCCGGCTAGGTCGGCAATTGGGTAAGGTCATCGATACCCCTCA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACTCTTCGGTGCTCTTTCTCTATCTTCTCTCGGCCGTGCTCTTGGCTGACTG	900
Sbjct	841	GGAACTCTTCTGGTTGCTCTTTCTCTATCTTCTCTCGGCCGTGCTCTTGGCTGACTG	900
Query	901	TGCCCGCTTCAGGCTACCAAGTGCACAATTCTCGGGGCTTTACATGTACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGGCTACCAAGTGCACAATTCTCGGGGCTTTATCATGTACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGC-CGATGCCATCTGCACACTCCGGGGTGT	1019
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCG-CACGATGCCATCTGCATACTCCGGGGTGT	1019
Query	1020	GTCCCTTGGGTTTCGCGAGGGTAACGCCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Sbjct	1020	GTCCCTTGGGTTTCGCGAGGGCAACGCTCTCGAGGTGTTGGGTGGCGATGACCCCCACGGTA	1079
Query	1080	GCCACACAGGACGCGCAAACTCCCCACAACGACGCTTCGACGTCATATCGATCTGCTTGTC	1139
Sbjct	1080	GCCACACAGGACGCGCAAACTCCCCGCAACGACGCTTCGACGTCACATCGAICTGCTTGTC	1139
Query	1140	GGGAGCGCCACCCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTT	1199
Sbjct	1140	GGGAGCGCCACCCCTCTGTTGCGGCCCTCTACGTGGGGGATCTGTGCGGGTCCGTCTTCTT	1199
Query	1200	GTTGGTCAACTGTTTACCTTCTCTCCACGGCGCCATCGGACGACGAAGACTGCAATTGT	1259
Sbjct	1200	ATTGGTCAACTGTTTACCTTCTCTCCACGGCGCCATCGGACGAAGACTGCAATTGT	1259
Query	1260	TCTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACCTGG	1319
Sbjct	1260	TCTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACCTGG	1319
Query	1320	TCCCCACGGGACGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGGCATCATGGAC	1379
Sbjct	1320	TCCCCATGGGGCGGTTGGATATGGCTCAGCTGCTCCGGATCCCAAGGCATCTGGAT	1379
Query	1380	ATGATCGCTGGTGCTCACTGGGAGTCTTGGCGGGCATAGCGTATTCTCCATGGTGGGG	1439
Sbjct	1380	ATGATCGCTGGTGCTCACTGGGAGTCTTGGCGGGCATAGCGTATTCTCCATGGTGGGG	1439
Query	1440	AACGTGGGCGAAGGTCCTGGTAGTGTCTGCTATTTCGGCGGCTCGACGCGGGAACCCA-	1499

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Sbjct 1440 AACTGGGCGAAGGTCTCGTAGTGTGTGTGCTGTTGCGGGCTCGACGCGAAACC-AT 1498
Query 1499 CGTCACCGGGGGA-AATGCGGCGCGACACGGCTGGGCTTGTGGTCTCCTT-ACACCA 1556
Sbjct 1499 CGTCTCCGGGGGACAA-GCCGCCGCGCCATGTCTGGACTTGTAGTCTC-TTCACACCA 1556
Query 1557 GGCGCCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCAGATCAATAGCAGC 1616
Sbjct 1557 GGCCTTAAGCAGAACATCCAGCTGATCAACACCAACGGCAGTTGGCAGATCAATAGCAGC 1616
Query 1617 GCCTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCT-TCTATCAACA 1675
Sbjct 1617 GCCTTGAATGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCT-TATCTATCAACA 1675
Query 1676 CAAATTCACCTCTTTGAGGCTGTCTGAGAGGTTGGCCAGCTGCGACGGCTTACCGATT 1735
Sbjct 1676 CAAATTCACCTCTTTGAGGCTGTCTGAGAGGTTGGCCAGCTGCGACGGCTTACCGATT 1735
Query 1736 TGCCAGGGCTGGGGCTTATCAGTTATGCCAACGGAAGCGGCTCGACGACGCCCTTA 1795
Sbjct 1736 TGACGAGGGCTGGGGCTTATCAGTCAATGCCAACGGAAGCGGCTCGACGACGCCCTTA 1795
Query 1796 CTGCTGGCACTACCCCTCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCC 1855
Sbjct 1796 TTGTTGGCACTACCCCTCAAGACCTTGGCGTATCGTGGCCGAAAGAGCGTATGTGGCCC 1855
Query 1856 GGTATATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACGACAGGTGGGGCGCGCC 1915
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Query 2036 AGCGCCCCCTTGTGTATCGGAGGGGTGGGCAACAAACCTTGTCTGCCCCACTGATTG 2095
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Sbjct 2096 TTTCCGCAAGCATCCGGAAGCCACATACCTCTCGGTGCGGCTCTGGTCCCTGGATCACAC 2155
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Sbjct 2395 GTGCCACCGGCTCATCCACCTCCACAGAACATTGTGGACGTGACGACTTGTACGGGG 2454
Query 2455 TAGGGTCAAGCATCGCGTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTGTTCTTC 2514
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Sbjct 2515 TGCTTGCAGACGCGCGCTGTCTCTGCTTGTGGATGATGCTACTCATATCCCAAGCGG 2574
Query 2575 AGGCGGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGC-ACGGT 2633

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Sbjct	2575	AGGCGGCTTTTGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCGA--GGT	2633
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Sbjct	2634	CTTGTATCTCTTCCTCGTGTCTTCTTGCCTTTGCGTGGAATCTGAAGGGTAGGTGGGTGCC	2693
Query	2694	GGAGCGGTCTACGCCCTCTACGGGATGTGCCCTCTCTCTGCTCCTGCTGGCGTTGCCT	2753
Sbjct	2694	GGAGCGGCTACGCCCTCTACGGGATGTGCCCTCTCTCTGCTCCTGTTAGCGTTGCC	2753
Query	2754	CAGCGGGCATAACGACATGGACACGGAGTGGCCGCGTGTGGCGCGCTTGTCTTTGTC	2813
Sbjct	2754	CAGCGGGCATAACGCTTTGAACACGGAGTGGCCGCGTGTGTGGCGCGCTTGTCTTTGTC	2813
Query	2814	GGGTTAATGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCAATGG	2873
Sbjct	2814	GGGTTAATGGCGCTGACCTGTACCATATTACAAGCGCTATATCAGCTGGTGCTATGG	2873
Query	2874	TGGCTTCAGTATTTTCTGACCAAGATAGAAGCGCAACTGCACGTGTGGGTTCCTCTCT	2933
Sbjct	2874	TGGCTTCAGTATTTTCTGACCAAGATAGAAGCGCAATTGCACGTGTGGGTTCCTCTCTCT	2933
Query	2934	AACGTCCTGGGGGGGCGCATGCCGTCACTTACTCATGTGTGTAGTACACCGACCCGTG	2993
Sbjct	2934	AACGTTTCGAGGAGGGGCGCACGCCGTCACTTACTCATGTGTGTGTACACCGACTCTG	2993
Query	2994	GTATTTGACATACCAAACACTACTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCC	3053
Sbjct	2994	GTATTTGACATACCAAACACTACTCTGGCCGTCTGGGACCCCTTTGGATTCTTCAAGCC	3053
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Sbjct	3054	AGTTTGCTTTAAAGTACCTCACTTCTGTGCGCGCTCAAGGCCCTTCTCCGGAATCTGCGCGCTG	3113
Query	3114	GCGCGGAATATACGGCGAGTCTACTACGTGCAAAATGGCCATCATCAAGTTAGGGGGCGTT	3173
Sbjct	3114	GCGCGGAATATGGTCGAGGCCATTACGTGCAAAATGGCTATCATCAAGTTAGGGGGCGTT	3173
Query	3174	ACTGGACCTATGTGTATAACCACTCAACCCCTTCTGAGACTGGGCGCACAAAGGCCGTG	3233
Sbjct	3174	ACTGGACCTATGTTTATAATCACTGACTCCTTCTCGGACTGGGCGCACAAAGGCCGTG	3233
Query	3234	CGAGATCTGGCGTGGCTGTGGAACCACTCGTCTTCTCCGAATGGAGACCAAGCTCATC	3293
Sbjct	3234	CGAGACCTGGCGTGGCCGTGAGCCAGTCTGTCTTCTCCAAATGGAGACCAAGCTCATC	3293
Query	3294	ACGTGGGGGGCAGATACCGCCGCGTGGCGTGACATCATCAACGGCTTGCCCGTCTCTGCC	3353
Sbjct	3294	ACGTGGGGGGCGGACACCGCCGCGTGGCGTGACATCATCAACGGCTTGCCCGTCTCGCC	3353
Query	3354	CGTAGGGGCGAGAGATACTGCTGGGCGAGCCGACGGAATGGTCTCCAAAGGGGTGGAGG	3413
Sbjct	3354	CGTAGGGGCGGGAGATACTGCTCGGACAGCCGATGGAATGGTCTCCAAAGGGGTGGAGG	3413
Query	3414	TTGCTGGCGCCCATCAGCGGCTACGCCAGCAGAGAGGCCCTCTAGGGGTGTATAATC	3473
Sbjct	3414	TTGCTGGCGCCCATCAGCGGCTACGCCAGCAGAGAGGGGCCCTCTAGGGGTGTATAATC	3473
Query	3474	ACCAGCCTGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACT	3533
Sbjct	3474	ACCAGCCTAATGTCGCCGGGATAAAACCAAGTGGAGGGCGAGGTCCAGATTGTGTCAACT	3533
Query	3534	GCTACCCAAACCTTCTCGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAAGGG	3593
Sbjct	3534	GCTGCCCAAACCTTTCTCGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAAGGG	3593
Query	3594	GCCGGAACGAGGACATCGATCACCCAAGGTCCTGTATCCAGATGTATACCAATGTG	3653
Sbjct	3594	GCCGGAACGAGGACATCGATCACCCAAGGGTCTGTATTCCAGATGTATACCAACGTA	3653
Query	3654	GACCAAGACCTTGTGGGCTGGCCGCTCTCAAGGTTCCCGCTCATTGACACCCGTGACC	3713
Sbjct	3654	GACCAAGACCTCGTTGGCTGGCCGCTCTCAAGGTTGCCGCTCATTGACACCCGTGACC	3713
Query	3714	TGCGGCTCTCGGACCTTTACTGTGTACAGGACGACCGGATGTCAATCCCGTGCGCCGG	3773

9/8/2009

9/8/2009

Sbjct	5991	CCCCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGTGCGCAATACTCGCC	6050
Query	6051	CGGCACGTTGGCCGGGCGAGGGGCGAGTGCATGGATGAACCGGTATATAGCCTTCGCC	6110
Sbjct	6051	CGGCACGTCGGCCGGGCGAGGGGCGAGTGCATGGATGAACCGGTATATAGCCTTCGCC	6110
Query	6111	TCCCGGGGGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCGCCGCCG	6170
Sbjct	6111	TCCCGAGGGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCCGC	6170
Query	6171	GTCACCTGCCATACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGGCGACTGCATCAGTGG	6230
Sbjct	6171	GTCACCTGCCATACTCAGCAGCCTCACTGTGACCCAGCTCCTGAGGCGACTACACCACTGG	6230
Query	6231	ATAAGCTCGGAGTGTAACCACTCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGG	6290
Sbjct	6231	CTAAGCTCGGAGAGCACTACTCCATGCTCCGGCTCTGGCTAAGGGACATCTGGGACTGG	6290
Query	6291	ATATGGCAGGTGCTGAGCGACTTTAAGACCTTGCTGAAAGCCAAGCTCATGCCACAAGT	6350
Sbjct	6291	ATATGCGAGGTGCTGAGCGACTTTAAGACCTTGCTAAAAACCAAGCTCATGCCACATCTG	6350
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Sbjct	6351	CCTGGGATTCCCTTTGTGTCTTCCAGCAGCGGGTATAGGGGGTCTTGGCGGGGGGACGGC	6410
Query	6411	ATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACG	6470
Sbjct	6411	ATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGAACG	6470
Query	6471	ATGAGGATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAA	6530
Sbjct	6471	ATGAGGATCGTCGGTCTTAGGACCTGTAGGAACATGTGGAGTGGGACGTTCCCCATTAA	6530
Query	6531	GCCACACACAGGCGCCCTTGACTCCCTTCTCGCGCCGAACATAAGTTCCGGCTGTGG	6590
Sbjct	6531	GCCTACACACAGGCGCCCTTGACTCCCTTCTCGCGCGAAGTACACGTTCCGGCTATGG	6590
Query	6591	AGGGTGCTGTGACAGGAATACGTGGAGATAAGCGCGGTGGGGGACTTCCACTACGT-ATC	6649
Sbjct	6591	AGGGTGCTGTGACAGGAATACGTGGAGATAAGCGCGGTGGGGGACTTCCACTACGTGA-C	6649
Query	6650	GGGTATGACTACTGACAATCTTAAATGCCCGTGCAGATCCCATCGCCCGAATTTTTCAC	6709
Sbjct	6650	AGGCATGACTACTGATAATCTCAAATGCCCGTGCAGGTCCCATCGCCCGAATTTTTCAC	6709
Query	6710	AGAATTGGACGGGTGCGCCTACACAGGTTTGCGCCCTTTCGAAGCCCTTGCTGCGGGA	6769
Sbjct	6710	AGAATTGGACGGGTGCGCCTACATAGTTTGCGCCCTTTCGAAGCCCTTGCTGCGGGA	6769
Query	6770	GGAGGTATCAITTCAGAGTAGGACTCCACGAGTACCCGTTGGGGTCGCAATTACCTTGCGA	6829
Sbjct	6770	GGAGGTATCAITTCAGGTAGGACTCCACGATTACCCGTTGGGGTCGCAATTACCTTGCGA	6829
Query	6830	GCCCGAACCGGACGTAGCCGCTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGC	6889
Sbjct	6830	GCCCGAACCGGACGTAGCCGCTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGC	6889
Query	6890	AGAGGCGGCGGGGAGAAAGTTGGCGAGAGGG-TCACCCCTTCT-ATGGCCAGCTCCTCG	6947
Sbjct	6890	AGCGGCGGCGGGGAGAAAGTTGGCGAG-GGGATCACCCCTTCTGA-GGCCAGCTCCTCG	6947
Query	6948	GCTAGGCAGCTGTCCGCTCCATCTCTCAAGGCACCTTGACACGCCAACCATGACTCCCTT	7007
Sbjct	6948	GCTAGGCAGCTGTCCGCTCCATCTCTCAAGGCACCTTGACACCATCAACCATGACTCCCTT	7007
Query	7008	GACGCCGAGCTCATAGAGGCTAACCTCCTGTGAGGCGAGGAGTGGCGGCAACATCAC	7067
Sbjct	7008	GACGCCGAGCTCATAGAGGCTAACCTCTTGTAGGACCAAGAGTGGCGGCAACATCAC	7067
Query	7068	AGGGTTGAGTCAGAGACAAAGTGGTGATTCTGGACTCCTTCGATCCGTTGTGGCAGAG	7127
Sbjct	7068	AGGGTTGAGTCAGAGACAAAGTGGTGATTCTGGACTCCTTCGATCCGTTGTGGCGGAG	7127
Query	7128	GAGGATGAGCGGAGGTTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCC	7188

Sbjct	7128		GAGGACGAGCGGGAGATCTCCGTGCCGCAGAAATCTGCGGAAGTCTCGGAGATTACC	7187
Query	7188		CGGGCCCTGCCCGTCTGGGCGCGGCGGACTACAACCCCCCGCT-AGTAGAGAGCTGGAA	7246
Sbjct	7188		CAGGCCCTGCCCTATTGGGCGCGGCGGACTATAACCCCCCGCTGA-TAGAGAGCTGGAA	7246
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Sbjct	7247		AAAGCCTAACTATGAACCACTGTGGTCCATGGCTGTCCGCTTCACCTCCACAGTCCCC	7306
Query	7307		TCTGTGCCTCCGCCTCGGAAAAAGCGTACGGTGGTCTCACGAATCAACCTTATCTAC	7366
Sbjct	7307		TCTGTGCCTCCGCCTCGGAAAAAGCGGACGGTGGTCTCACGAATCGACCTATCCAC	7366
Query	7367		TGCCTTGGCGAGCTTGGCCACAAAGTTTGGCAGCTCTCAACTTCGGCATTACGGG	7426
Sbjct	7367		TGCCTTGGCCGAGCTTGGCCGCTAAAAGTTTGGCAGTCTCTCAACTTCGGCATTACGGG	7426
Query	7427		CGACAATACGACAACATCTCTGAGCCCCGCCCTTCTGGCTGCCCCGACTCCGACGT	7486
Sbjct	7427		CGACAATACGACAACGCTCTCTGAGCCCCGCCCTTCTGGCTGTCTCCGAGACTCCGACGC	7486
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Sbjct	7487		TGAGTCTTATTTTCCATGCCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGA	7546
Query	7547		CGGGTCATGGTGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAAT	7606
Sbjct	7547		CGGGTCATGGTGACGGTCAGTAGTGAGGCCGGACGGAAGAGCGTTGTGTGCTGCTCAAT	7606
Query	7607		GTCTTATTCTTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCC	7666
Sbjct	7607		GTCTTATACTTGGACAGGCGCACTTATCACCCTGCGCGCGGAAGAACAAAACTGCC	7666
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Sbjct	7667		CATTAAACGCACTGAGCAACTCGTTGCTACGTACCAACAACCTGGTGTACTCCACCACTTC	7726
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Sbjct	7727		ACGCAGTGCTTGGCAAAGGCAGAGAAGATCATTATTGACAGACTGCAAGTTCTGGACAG	7786
Query	7787		CCATTACCAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTT	7846
Sbjct	7787		CCACTACCAGGACGTGCTCAAGGAGGTAAAGCAGCGGCGTCAAAGTGAAGGCTAACTT	7846
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Sbjct	7847		GCTATCCGTAGAGGAAGCTTGCAGCCTGACGCCCCCGCACTACGCCAAATCAAAGTTTGG	7906
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Sbjct	7907		CTATGGGGCAAAGACGTCCGTGCCATGCCAGAAAGCCGTAAACCACATCAACTCCGT	7966
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Sbjct	7967		GTGGAAGAGACCTTCTGGAAGACAGTGTAAACCAATACAACTACCATCATGGCTAAGAA	8026
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Sbjct	8027		CGAGGTTTTTTGCGTTTACGCTGAGAAGGGGGTCTGAAGCAGCTCGTCTCATCGTGT	8086
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Sbjct	8087		CCCCGATCTGGGTGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTATGACAGCT	8146
Query	8147		CCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGA	8206
Sbjct	8147		CCCCCGGCGGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGA	8206
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Sbjct	8207		GTTCTCTGTGTCAAGCGTGGGAAGTCCAAGAGGACCCCAATGGGGTTCTCGTATGATACCCG	8266
Query	8267		CTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTACCAATG	8326

Sbjct	8267	CTGCTTTTGACTCCACAGTCACTGAGAGCGATATCCGTACGGAGGAGGCAATCTACCAATG	8326
Query	8327	TTGTGACCTTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGT	8386
Sbjct	8327	TTGTGACCTTGGACCCCCAAGCCCGCGTGGCCATCAGGTCCCTCACTGAGAGGCTTTATGT	8386
Query	8387	TGGGGGCCCTCTTACCAATTCAGGGGGGAAAACTGCGGCTACCGCAGGTGCCCGCGCAG	8446
Sbjct	8387	TGGGGGCCCTCTTACCAACTCAAGGGGGGAGAACTGCGGCTATCGAGGTGCCGTGCGAG	8446
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Sbjct	8447	CGGCGTACTGACAAACAGCTGTGGTAAACCCCTCACTTGTCTACATCAAGGCCCGGGCAGC	8506
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Query	8567	TATCTGTGAAGTGC GGCGGTCCAGGAGGACGGCGCGAGCTTGAGAGCCTTCACGGAGGC	8626
Sbjct	8567	TATCTGTGAGAGTGC GGCGGTCCAGGAGGACGGCGCGAGCTTGAGAGCCTTCACGGAGGC	8626
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Sbjct	8627	TATGACCAGGTACTTCGCGTCCCCCGGGGACCCCCAACAGAAATACGACTTGGAGCT	8686
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Sbjct	8867	GATGATACTGATGACCATTCTTCAGTGCTCTCATAGCCAGGAGTCAGCTTGAACAGGC	8926
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Sbjct	8927	CCTTGATTGCGAAATCTACGGAGCTGTCTACTCCATAGAACCACTGGATCTACCTCCAAT	8986
Query	8987	CATTCAAAGACTTCAATGGCTCAGCGCAATTTTCACTCCACAGTTACTCTCCAGTGAAAT	9046
Sbjct	8987	TATTCAAAGACTTCAATGGCTCAGCGGTTTCACTCCACAGTTACTCTCCAGTGAAAT	9046
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Sbjct	9047	CAATAGGGTGGCCGATGCTCAGAAAACTTGGGGTCCCGCCTTGCGAGCTTGGAGACA	9106
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Sbjct	9107	CCGGGCCCGGAGCGTCCGCGCTAGACTTCTGTCCAGAGGAGGAGGGCTGCCATATGTGG	9166
Query	9167	CAAGTACCTCTTCAACTGGGCGAGTAAGAACAAAGCTCAAATCACTCCAATAGCGGCCGC	9226
Sbjct	9167	CAAGTACCTCTTCAACTGGGCGAGTAAGAACAAAGCTCAAATCACTCCAATAGCGGCCGC	9226
Query	9227	TGGCCGGCTTGAACCTTGTCCGGTGTGTTACAGGCTGGCTACAGCGGGGGAGACATTTATCA	9286
Sbjct	9227	TGGCCGGCTTGAACCTTGTCCGGTGTGTTACAGGCTGGCTACAGCGGGGGAGACATTTATCA	9286
Query	9287	CAGCGTGTCTCATGCCCGGCCCGCTGTTTCTGGTTTTGCCTACTCTGCTCGTGCAGG	9346
Sbjct	9287	CAGCGTGTCTCATGCCCGGCCCGCTGTTTCTGGTTTGTGCTCACTCTGCTGTCTGCAGG	9346
Query	9347	GGTAGGCTACTTACCTCTCCCAACCGATAAGAGTTGGGGTAAACACTCCGGCCTCTTAA	9406
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Sbjct  9407  |||||
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Sbjct  9467  TTTTTTTTTTTTTTTTTTTTTTTTTTTT 9490

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Length=9518
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Sort alignments for this subject sequence

E value	Score	Percent identity	Query start position	Subject start position
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Score = 1.483e+04 bits (8028), Expect = 0.0
Identities = 8028/8028 (100%), Gaps = 0/8028 (0%)
Strand=Plus/Plus

Query	1572	ATCCAACGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGATTGGCAAT	1631
Sbjct	1491	ATCCAACGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGATTGGCAAT	1550
Query	1632	GAAAGCCTTAACACCGCGCTGGTTAGCAGGGCTCTTCTATCAACAAATTAACATCTTCA	1691
Sbjct	1551	GAAAGCCTTAACACCGCGCTGGTTAGCAGGGCTCTTCTATCAACAAATTAACATCTTCA	1610
Query	1692	GGCTGTCCTGAGAGGTTGGCCAGCTGCCAGCGCTTACCGATTTTGCCAGGGCTGGGGT	1751
Sbjct	1611	GGCTGTCCTGAGAGGTTGGCCAGCTGCCAGCGCTTACCGATTTTGCCAGGGCTGGGGT	1670
Query	1752	CCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTGCTGGCATTACCT	1811
Sbjct	1671	CCTATCAGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTGCTGGCATTACCT	1730
Query	1812	CCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGTATATTGCTTCAT	1871
Sbjct	1731	CCAAGACCTTGTGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGTATATTGCTTCAT	1790
Query	1872	CCAGCCCCGTGGTGGTGGGAACGACGACAGTGTGGCGCGCCTACTTACAGCTGGGGT	1931
Sbjct	1791	CCAGCCCCGTGGTGGTGGGAACGACGACAGTGTGGCGCGCCTACTTACAGCTGGGGT	1850
Query	1932	GCAAAATGATACGGATGTCTTCGTCCTTAACAAACACGAGCCACCGCTGGGCAATTGGTTC	1991
Sbjct	1851	GCAAAATGATACGGATGTCTTCGTCCTTAACAAACACGAGCCACCGCTGGGCAATTGGTTC	1910
Query	1992	GGTTGTACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTC	2051
Sbjct	1911	GGTTGTACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTC	1970
Query	2052	ATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCGCAAAACATCCG	2111
Sbjct	1971	ATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCGCAAAACATCCG	2030
Query	2112	GAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTGCAC	2171
Sbjct	2031	GAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTGCAC	2090
Query	2172	TACCGGTATAGGCTTTGGCACTATCCTTGATACCATCAATTACACCATATTCAAAGTCAGG	2231
Sbjct	2091	TACCGGTATAGGCTTTGGCACTATCCTTGATACCATCAATTACACCATATTCAAAGTCAGG	2150
Query	2232	ATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCTGCAACTGGACGCGGGGCGAA	2291
Sbjct	2151	ATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCTGCAACTGGACGCGGGGCGAA	2210
Query	2292	CGCTGTGATCTGGAAGACAGGACAGGTCGAGCTCAGCCCGTTGCTGCTGTCCACCACA	2351
Sbjct	2211	CGCTGTGATCTGGAAGACAGGACAGGTCGAGCTCAGCCCGTTGCTGCTGTCCACCACA	2270
Query	2352	CAGTGGAGGTCCTTCGGTGTTCTTTACGACCTTGCACGCTTGTCGACCGGCTCATC	2411
Sbjct	2271	CAGTGGAGGTCCTTCGGTGTTCTTTACGACCTTGCACGCTTGTCGACCGGCTCATC	2330
Query	2412	CACCTCCACAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCG	2471

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Sbjct 2331 |CACC|TCCACCAGAACATTG|TGGACGTGCAGTACT|TGTACGGGGTAGGGTCAAGCATCGCG| 2390
Query 2472 |TCCTGGGGCATTAAAGTGGGAGTACGTGCTTCTCTGTTCTCTTCTGCTTGCAGACGGCGC| 2531
Sbjct 2391 |TCCTGGGGCATTAAAGTGGGAGTACGTGCTTCTCTGTTCTCTTCTGCTTGCAGACGGCGC| 2450
Query 2532 |GTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAAC| 2591
Sbjct 2451 |GTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAAC| 2510
Query 2592 |CTCGTAATACTCAATGCAGCATCCCTGGCCGGAGCGCAGCGTCTTGTGTCCTTCTCTCGT| 2651
Sbjct 2511 |CTCGTAATACTCAATGCAGCATCCCTGGCCGGAGCGCAGCGTCTTGTGTCCTTCTCTCGT| 2570
Query 2652 |TCTTCTGCTTTTGGCGTGTATCTGAAGGTAGGTGGGTGCCGGAGCGGCTACGCCCTC| 2711
Sbjct 2571 |TCTTCTGCTTTTGGCGTGTATCTGAAGGTAGGTGGGTGCCGGAGCGGCTACGCCCTC| 2630
Query 2712 |TACGGGATGTGGCCTCTCTCTGCTCTCTGCTGGCGTTCCTCAGCGGGCATACGCACTG| 2771
Sbjct 2631 |TACGGGATGTGGCCTCTCTCTGCTCTCTGCTGGCGTTCCTCAGCGGGCATACGCACTG| 2690
Query 2772 |GACACGGAGGTGGCCGCGTCTGTGGCGCGCTTGTCTTGTGCGGGTAAATGGCGTGACT| 2831
Sbjct 2691 |GACACGGAGGTGGCCGCGTCTGTGGCGCGCTTGTCTTGTGCGGGTAAATGGCGTGACT| 2750
Query 2832 |CTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTG| 2891
Sbjct 2751 |CTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTG| 2810
Query 2892 |ACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCCCGCTTCAACGTCCTGGGGGGGCGC| 2951
Sbjct 2811 |ACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCGCTTCAACGTCCTGGGGGGGCGC| 2870
Query 2952 |GATGCCGTCATCTTACTCATGTGTGTAGTACACCGCACCTTGGTATTTGACATACCAAAA| 3011
Sbjct 2871 |GATGCCGTCATCTTACTCATGTGTGTAGTACACCGCACCTTGGTATTTGACATACCAAAA| 2930
Query 3012 |CTACTCTCGGCCATCTTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCC| 3071
Sbjct 2931 |CTACTCTCGGCCATCTTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCC| 2990
Query 3072 |TACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATAGCCGGA| 3131
Sbjct 2991 |TACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATAGCCGGA| 3050
Query 3132 |GGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTAT| 3191
Sbjct 3051 |GGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTAT| 3110
Query 3192 |AACCATCTCACCCCTCTTCGAGACTGGGCGCACACGGCCTGCGAGACTTGGCCGTGGCT| 3251
Sbjct 3111 |AACCATCTCACCCCTCTTCGAGACTGGGCGCACACGGCCTGCGAGACTTGGCCGTGGCT| 3170
Query 3252 |GTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATACGTGGGGGGCAGATACC| 3311
Sbjct 3171 |GTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATACGTGGGGGGCAGATACC| 3230
Query 3312 |GCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCGTAGGGGGCAGGAGATA| 3371
Sbjct 3231 |GCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCGTAGGGGGCAGGAGATA| 3290
Query 3372 |CTGCTTGGGCGAGCCGACGGAATGGTCTCCAAGGGGTGAGAGTTGCTGGCGCCATCAGC| 3431
Sbjct 3291 |CTGCTTGGGCGAGCCGACGGAATGGTCTCCAAGGGGTGAGAGTTGCTGGCGCCATCAGC| 3350
Query 3432 |CGGTACGCCCAGCAGACGAGAGGGCTCTTAGGGTGATAATACCAGCCTGACTTGGCCGG| 3491
Sbjct 3351 |CGGTACGCCCAGCAGACGAGAGGGCTCTTAGGGTGATAATACCAGCCTGACTTGGCCGG| 3410
Query 3492 |GACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTG| 3551
Sbjct 3411 |GACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTG| 3470
Query 3552 |GCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATC| 3611

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Sbjct 3471 |GCAACGTGCATCAATGGGGTATGCTGGACTGCTACCACGGGGCCGGAACGAGGACCATC| 3530
Query 3612 |GCATCACCACAGGGTCCTGTATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGC| 3671
Sbjct 3531 |GCATCACCACAGGGTCCTGTATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGC| 3590
Query 3672 |TGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCGTGACCTGCGGCTCCTCGGACCTT| 3731
Sbjct 3591 |TGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCGTGACCTGCGGCTCCTCGGACCTT| 3650
Query 3732 |TACCTGGTCACGAGGCACGCCGATGTCTATCCCGTGCGCCGGCGAGGTGATAGCAGGGGT| 3791
Sbjct 3651 |TACCTGGTCACGAGGCACGCCGATGTCTATCCCGTGCGCCGGCGAGGTGATAGCAGGGGT| 3710
Query 3792 |AGCCTGCTTTTCGCCCGGGCCATTTCCTACTTGAAGGCTCCTCGGGGGTCCCGTGTG| 3851
Sbjct 3711 |AGCCTGCTTTTCGCCCGGGCCATTTCCTACTTGAAGGCTCCTCGGGGGTCCCGTGTG| 3770
Query 3852 |TGCCCCGGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGACCCGTGGAGTGGCT| 3911
Sbjct 3771 |TGCCCCGGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGACCCGTGGAGTGGCT| 3830
Query 3912 |AAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCGGTGTTC| 3971
Sbjct 3831 |AAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCGGTGTTC| 3890
Query 3972 |ACGGACAACCTCCTCTCCACCAGCAGTGCACCAGAGCTTCCAGGTGGCCACCTGCATGCT| 4031
Sbjct 3891 |ACGGACAACCTCCTCTCCACCAGCAGTGCACCAGAGCTTCCAGGTGGCCACCTGCATGCT| 3950
Query 4032 |CCACC CGCAGCGGTAAAGACCAAGGTCCCGGCTGCGTACGACGCCAGGGCTACAAG| 4091
Sbjct 3951 |CCACC CGCAGCGGTAAAGACCAAGGTCCCGGCTGCGTACGACGCCAGGGCTACAAG| 4010
Query 4092 |GTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAG| 4151
Sbjct 4011 |GTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAG| 4070
Query 4152 |GCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCACTGGCAGCCCC| 4211
Sbjct 4071 |GCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCACTGGCAGCCCC| 4130
Query 4212 |ATCAGCTACTCCACCTACGGCAAGTTCCCTGCGCAGCGCGGGTGCTCAGGAGGTGCTTAT| 4271
Sbjct 4131 |ATCAGCTACTCCACCTACGGCAAGTTCCCTGCGCAGCGCGGGTGCTCAGGAGGTGCTTAT| 4190
Query 4272 |GACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGC| 4331
Sbjct 4191 |GACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGC| 4250
Query 4332 |ACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACC| 4391
Sbjct 4251 |ACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACC| 4310
Query 4392 |CCTCCGGGCTCCGTCACGTGTGCCATCCTAACATCGAGGAGGTGCTCTGTCCACCACC| 4451
Sbjct 4311 |CCTCCGGGCTCCGTCACGTGTGCCATCCTAACATCGAGGAGGTGCTCTGTCCACCACC| 4370
Query 4452 |GGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACAT| 4511
Sbjct 4371 |GGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACAT| 4430
Query 4512 |CTCATCTTCTGCCACTCAAAGAAAGGTGCGACGAGCTCGCCGCGAAGCTGGTGCATTG| 4571
Sbjct 4431 |CTCATCTTCTGCCACTCAAAGAAAGGTGCGACGAGCTCGCCGCGAAGCTGGTGCATTG| 4490
Query 4572 |GGCATCAATGCCGTGGCTTACTACCGCGGTCTTGACGTGTCTGTGATCCCGACACGGCG| 4631
Sbjct 4491 |GGCATCAATGCCGTGGCTTACTACCGCGGTCTTGACGTGTCTGTGATCCCGACACGGCG| 4550
Query 4632 |GATGTTGTCTGCTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGGACTTCGACTCT| 4691
Sbjct 4551 |GATGTTGTCTGCTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGGGACTTCGACTCT| 4610
Query 4692 |GTGATAGACTGCAACACGTGTGTCACTACAGACAGTCGATTTCAGCCTTGACCCCTACCTTT| 4751

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Sbjct	4611	GTGATAGACTGCAACACGCTGTGTCTACTCAGACAGTCGATTTCAGCCTTGACCCCTACCTTT	4670
Query	4752	ACCATTGAGACAAACACGCTCCCCAGGATGCTGTCTCCAGAGCTCAAGCCGGGGCAGG	4811
Sbjct	4671	ACCATTGAGACAAACACGCTCCCCAGGATGCTGTCTCCAGAGCTCAAGCCGGGGCAGG	4730
Query	4812	ACTGGCAGGGGGAAGCCAGGCATCTATAGATTTTGTGGCACCAGGGGAGCAGCCCTCCGGC	4871
Sbjct	4731	ACTGGCAGGGGGAAGCCAGGCATCTATAGATTTTGTGGCACCAGGGGAGCAGCCCTCCGGC	4790
Query	4872	ATGTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTC	4931
Sbjct	4791	ATGTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTC	4850
Query	4932	ACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTG	4991
Sbjct	4851	ACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTG	4910
Query	4992	TGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTACGGGCCCTACTCATATAGATGCC	5051
Sbjct	4911	TGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTACGGGCCCTACTCATATAGATGCC	4970
Query	5052	CACTTTTTATCCAGACAAAGCAGAGTGGGGAGAAGCTTTCCTTACCTGGTAGCGTACCAA	5111
Sbjct	4971	CACTTTTTATCCAGACAAAGCAGAGTGGGGAGAAGCTTTCCTTACCTGGTAGCGTACCAA	5030
Query	5112	GCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGT	5171
Sbjct	5031	GCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGT	5090
Query	5172	TTGATCCGCCTTAAACCCACCCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCT	5231
Sbjct	5091	TTGATCCGCCTTAAACCCACCCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCT	5150
Query	5232	GTTCAAGATGAAGTCAACCTGACGAGCCCAATACCAAAATACATCATGACATGCATGCTG	5291
Sbjct	5151	GTTCAAGATGAAGTCAACCTGACGAGCCCAATACCAAAATACATCATGACATGCATGCTG	5210
Query	5292	GCCGACCTGGAGGTCGTACGAGACCTTGGTGCTCGTTGGCGGCGTCTTGCTGCTCTG	5351
Sbjct	5211	GCCGACCTGGAGGTCGTACGAGACCTTGGTGCTCGTTGGCGGCGTCTTGCTGCTCTG	5270
Query	5352	GCCGCGTATTGCGCTGCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGG	5411
Sbjct	5271	GCCGCGTATTGCGCTGCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGG	5330
Query	5412	AAGCCGGCAATTATACCTGACAGGGAGGTTCCTACACAGGAGTTCGATGAGATGGAAGAG	5471
Sbjct	5331	AAGCCGGCAATTATACCTGACAGGGAGGTTCCTACACAGGAGTTCGATGAGATGGAAGAG	5390
Query	5472	TGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAG	5531
Sbjct	5391	TGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAG	5450
Query	5532	AAGGCCTTCGGCCTCTCTGACAGCCGCTCCCGCATGAGAGGTTATACCCCTGCTGTC	5591
Sbjct	5451	AAGGCCTTCGGCCTCTCTGACAGCCGCTCCCGCATGAGAGGTTATACCCCTGCTGTC	5510
Query	5592	CAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTTCATAGT	5651
Sbjct	5511	CAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTTCATAGT	5570
Query	5652	GGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTG	5711
Sbjct	5571	GGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTG	5630
Query	5712	ATGGCTTTTACAGCTGCGCTCAGCAGCCCACTAACCACTGGCCAAACCTCTCTTCAAC	5771
Sbjct	5631	ATGGCTTTTACAGCTGCGCTCAGCAGCCCACTAACCACTGGCCAAACCTCTCTTCAAC	5690
Query	5772	ATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCGGCTACTGCTTTGTG	5831
Sbjct	5691	ATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCGGCTACTGCTTTGTG	5750
Query	5832	GGTGTGGCTAGCTGGCGCCGCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGAC	5891

Sbjct 5751 GGTGCTGGCCTAGCTGGCGCCGCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGAC 5810
Query 5892 ATTCCTTGACGGGTATGGCGCGGCGTGGCGGGAGCTCTTGTAGCATTCAGATCATGAGC 5951
Sbjct 5811 ATTCCTTGACGGGTATGGCGCGGCGTGGCGGGAGCTCTTGTAGCATTCAGATCATGAGC 5870
Query 5952 GGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCGCCATCCTCTCGCCTGGA 6011
Sbjct 5871 GGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCGCCATCCTCTCGCCTGGA 5930
Query 6012 GCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTGGCCCGGGCGAG 6071
Sbjct 5931 GCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTGGCCCGGGCGAG 5990
Query 6072 GGGGCACTGCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGAACCATGTTTC 6131
Sbjct 5991 GGGGCACTGCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGAACCATGTTTC 6050
Query 6132 CCCACGCACTACGTGCGGAGAGCGATGACGCCGCCGCGTCACTGCCATACTCAGCAGC 6191
Sbjct 6051 CCCACGCACTACGTGCGGAGAGCGATGACGCCGCCGCGTCACTGCCATACTCAGCAGC 6110
Query 6192 CTCACCTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGACCACT 6251
Sbjct 6111 CTCACCTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGACCACT 6170
Query 6252 CCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGAC 6311
Sbjct 6171 CCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGAC 6230
Query 6312 TTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCTGGGATTCCCTTTGTGTCC 6371
Sbjct 6231 TTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCTGGGATTCCCTTTGTGTCC 6290
Query 6372 TGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCAC 6431
Sbjct 6291 TGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCAC 6350
Query 6432 TGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGG 6491
Sbjct 6351 TGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGG 6410
Query 6492 ACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCACGGGCCCCGTG 6551
Sbjct 6411 ACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCACGGGCCCCGTG 6470
Query 6552 ACTCCCTTCTCGCGCGAAGTATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATAC 6611
Sbjct 6471 ACTCCCTTCTCGCGCGAAGTATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATAC 6530
Query 6612 GTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACAATCTT 6671
Sbjct 6531 GTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACAATCTT 6590
Query 6672 AAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTA 6731
Sbjct 6591 AAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTA 6650
Query 6732 CACAGGTTTGCGCCCTTTCGAAGCCCTTGTGCGGGAGGAGGTATCATTAGAGTAGGA 6791
Sbjct 6651 CACAGGTTTGCGCCCTTTCGAAGCCCTTGTGCGGGAGGAGGTATCATTAGAGTAGGA 6710
Query 6792 CTCACAGGATACCCGTTGGGTCGCAATTACCTTGCGAGCCCGAACCGGAGCTAGCCGTG 6851
Sbjct 6711 CTCACAGGATACCCGTTGGGTCGCAATTACCTTGCGAGCCCGAACCGGAGCTAGCCGTG 6770
Query 6852 TTGACGTCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCGCGGAGAGGTTG 6911
Sbjct 6771 TTGACGTCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCGCGGAGAGGTTG 6830
Query 6912 GCGAGAGGGTACCCCTTCTATGGCCAGCTCCTCGGTAGCCAGCTGTCGCTCCATCT 6971
Sbjct 6831 GCGAGAGGGTACCCCTTCTATGGCCAGCTCCTCGGTAGCCAGCTGTCGCTCCATCT 6890
Query 6972 CTCAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCATAGAGGCTAAC 7031

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Sbjct 6891      |CTCAAGGCAACTTGCACCGCCAACCATGACTCCCTTGACGCCGAGCTCATAGAGGCTAAC| 6950
Query 7032      |CTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAGATG| 7091
Sbjct 6951      |CTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAGATG| 7010
Query 7092      |GTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTTCCGTA| 7151
Sbjct 7011      |GTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTTCCGTA| 7070
Query 7152      |CCTGCAGAAATTCGCGGAAGTCTCGGAGATTTCGCCCGGGCCCTGCCCGTCTGGGCGCGG| 7211
Sbjct 7071      |CCTGCAGAAATTCGCGGAAGTCTCGGAGATTTCGCCCGGGCCCTGCCCGTCTGGGCGCGG| 7130
Query 7212      |CCGGACTACAACCCCGCTAGTAGAGACGTGGAAGGCTGACTACGAACCACTGTG| 7271
Sbjct 7131      |CCGGACTACAACCCCGCTAGTAGAGACGTGGAAGGCTGACTACGAACCACTGTG| 7190
Query 7272      |GTCCATGGCTGCCGCTACCACCTCCACGGTCCCCTCTGTGCCCTCCGCCCTCGGAAAAAG| 7331
Sbjct 7191      |GTCCATGGCTGCCGCTACCACCTCCACGGTCCCCTCTGTGCCCTCCGCCCTCGGAAAAAG| 7250
Query 7332      |CGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAGCTTGCACACAAA| 7391
Sbjct 7251      |CGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAGCTTGCACACAAA| 7310
Query 7392      |AGTTTTGGCAGCTCCTCAACTTCGGCATTACGGGCGACAATACGACAACATCCTCTGAG| 7451
Sbjct 7311      |AGTTTTGGCAGCTCCTCAACTTCGGCATTACGGGCGACAATACGACAACATCCTCTGAG| 7370
Query 7452      |CCGCCCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCTTATTTCCATGCCCCC| 7511
Sbjct 7371      |CCGCCCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCTTATTTCCATGCCCCC| 7430
Query 7512      |CTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGGTCGACGGTCAGTAGT| 7571
Sbjct 7431      |CTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGGTCGACGGTCAGTAGT| 7490
Query 7572      |GGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGACAGGCGCACTC| 7631
Sbjct 7491      |GGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGACAGGCGCACTC| 7550
Query 7632      |GTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACTCGTTG| 7691
Sbjct 7551      |GTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACTCGTTG| 7610
Query 7692      |CTACGCCATCACAACTCGGTGTATTCCACCACTTCACGCACTGCTTGCCAAAGGCAGAAG| 7751
Sbjct 7611      |CTACGCCATCACAACTCGGTGTATTCCACCACTTCACGCACTGCTTGCCAAAGGCAGAAG| 7670
Query 7752      |AAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAG| 7811
Sbjct 7671      |AAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAG| 7730
Query 7812      |GTCAAAGCAGCGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTGCAGC| 7871
Sbjct 7731      |GTCAAAGCAGCGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTGCAGC| 7790
Query 7872      |CTGACGCCCCCACTTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCTGTC| 7931
Sbjct 7791      |CTGACGCCCCCACTTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCTGTC| 7850
Query 7932      |CATGCCAGAAAGCGCGTAGCCACATCAACTCCGTGTGGAAGACCTTCTGGAAGACAGT| 7991
Sbjct 7851      |CATGCCAGAAAGCGCGTAGCCACATCAACTCCGTGTGGAAGACCTTCTGGAAGACAGT| 7910
Query 7992      |GTAACACCAATAGACACTACCATCATGGCCAAGAAGCAGGTTTTCTGCGTTTCAGCCTGAG| 8051
Sbjct 7911      |GTAACACCAATAGACACTACCATCATGGCCAAGAAGCAGGTTTTCTGCGTTTCAGCCTGAG| 7970
Query 8052      |AAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGCGTGCCTGTGTC| 8111
Sbjct 7971      |AAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGCGTGCCTGTGTC| 8030
Query 8112      |GAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAAGCTCC| 8171

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Sbjct	8031	GAGAAGATGGCCCTGTACGACGTGTTAGCAAGCTCCCCGTCGCGTATGGGAAGCTCC	8090
Query	8172	TACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTGCGAAGCGTGGAAAGTCC	8231
Sbjct	8091	TACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTGCGAAGCGTGGAAAGTCC	8150
Query	8232	AAGAAGACCCCGATGGGGTTCTCGTATGATACCCCGCTGTTTGACTCCACAGTCACTGAG	8291
Sbjct	8151	AAGAAGACCCCGATGGGGTTCTCGTATGATACCCCGCTGTTTGACTCCACAGTCACTGAG	8210
Query	8292	AGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGC	8351
Sbjct	8211	AGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGC	8270
Query	8352	GTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTTTACCAATTCAAGG	8411
Sbjct	8271	GTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTTTACCAATTCAAGG	8330
Query	8412	GGGGAAATCTGCGCTACCGCAGGTGCCGCGCGAGCGCGTACTGACAACTAGCTGTGGT	8471
Sbjct	8331	GGGGAAATCTGCGCTACCGCAGGTGCCGCGCGAGCGCGTACTGACAACTAGCTGTGGT	8390
Query	8472	AACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGACGGGCTCCAGGAC	8531
Sbjct	8391	AACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGACGGGCTCCAGGAC	8450
Query	8532	TGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCAG	8591
Sbjct	8451	TGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCAG	8510
Query	8592	GAGGACGCGCGGAGCCTGAGAGCCTTACCGGAGGCTATGACCAGGTACTCCGCCCCCCC	8651
Sbjct	8511	GAGGACGCGCGGAGCCTGAGAGCCTTACCGGAGGCTATGACCAGGTACTCCGCCCCCCC	8570
Query	8652	ggggagcccccaACAACAGAAATACGACTTGGAGCTTAAACATCATGCTCTTCAACAGTG	8711
Sbjct	8571	GGGGACCCCCACAACAGAAATACGACTTGGAGCTTAAACATCATGCTCTTCAACAGTG	8630
Query	8712	TCAGTCGCCACGACGCGCGCTGGAAAGAGGGTCTACTACCTTACC CGTGACCTTACAACC	8771
Sbjct	8631	TCAGTCGCCACGACGCGCGCTGGAAAGAGGGTCTACTACCTTACC CGTGACCTTACAACC	8690
Query	8772	CCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCCTGGCTAGGC	8831
Sbjct	8691	CCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCCTGGCTAGGC	8750
Query	8832	AACATAATCATGTTTGGCCCCACACTGTGGCGAGGATGATACTGATGACCATTTCCTTT	8891
Sbjct	8751	AACATAATCATGTTTGGCCCCACACTGTGGCGAGGATGATACTGATGACCATTTCCTTT	8810
Query	8892	AGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCC	8951
Sbjct	8811	AGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCC	8870
Query	8952	TGCTACTCCATAGAACCACTGGATCTACCTTCCAATCATTCAAAGACTCCATGGCCTCAGC	9011
Sbjct	8871	TGCTACTCCATAGAACCACTGGATCTACCTTCCAATCATTCAAAGACTCCATGGCCTCAGC	8930
Query	9012	GCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGATGCGCTCAGA	9071
Sbjct	8931	GCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGATGCGCTCAGA	8990
Query	9072	AAACTTGGGGTCCCGCCCTTGGGAGCTTGGAGACACCGGGCCGAGGCGTCCGCGCTAGG	9131
Sbjct	8991	AAACTTGGGGTCCCGCCCTTGGGAGCTTGGAGACACCGGGCCGAGGCGTCCGCGCTAGG	9050
Query	9132	CTTCTGTCCAGAGGAGCGAGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGACGTA	9191
Sbjct	9051	CTTCTGTCCAGAGGAGCGAGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGACGTA	9110
Query	9192	AGAACAAAGCTCAAACACTCAATATAGCGCGCTGGCCGGCTGGAATTTGCCGTTGG	9251
Sbjct	9111	AGAACAAAGCTCAAACACTCAATATAGCGCGCTGGCCGGCTGGAATTTGCCGTTGG	9170
Query	9252	TTCACGGCTGGCTACACGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGCCCCCGC	9311

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Sbjct  9171  TTCACGGCTGGCTACAGCGGGGAGACATTTATCAGACGCTGTCTCATGCCCGGCCCCGC 9230
Query   9312  TGGTTCTGGTTTTTGGCTACTCTGCTCGTGCAGGGGTAGGCATCTACCTCCTCCCCAAC 9371
Sbjct  9231  TGGTTCTGGTTTTTGGCTACTCTGCTCGTGCAGGGGTAGGCATCTACCTCCTCCCCAAC 9290
Query   9372  CGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTGtttttttttttttt 9431
Sbjct  9291  CGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTGTTTTTTTTTTTTTT 9350
Query   9432  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9491
Sbjct  9351  TTTTTTTTTTTTTTTCTTTTTTTTTTTCTTTCCCTTCCTCTCTTTTTTCCCTTCTTTTTTC 9410
Query   9492  ctttttttAAITGGTGGCTCCAATCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCGGTGAG 9551
Sbjct  9411  CTTCTTTAAITGGTGGCTCCAATCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCGGTGAG 9470
Query   9552  CCGCATGACTGCAGAGAGTGTCTGATACTGGCCTCTCTGCAGATCATGT 9599
Sbjct  9471  CCGCATGACTGCAGAGAGTGTCTGATACTGGCCTCTCTGCAGATCATGT 9518

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Score = 2752 bits (1490), Expect = 0.0
 Identities = 1490/1490 (100%), Gaps = 0/1490 (0%)
 Strand=Plus/Plus

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Query   1  GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAACACTGT 60
Sbjct  1  GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAACACTGT 60
Query   61  TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGCAGCCTCCAGGA 120
Sbjct  61  TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGCAGCCTCCAGGA 120
Query   121  cccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTTAGTACACCGGAATTGCCAG 180
Sbjct  121  CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTTAGTACACCGGAATTGCCAG 180
Query   181  GACGACCGGGTCTCTTTCTTGGATAAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC 240
Sbjct  181  GACGACCGGGTCTCTTTCTTGGATAAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC 240
Query   241  GCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCCTTGTGGTACTGCCTGATAGG 300
Sbjct  241  GCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCCTTGTGGTACTGCCTGATAGG 300
Query   301  GTGCTTGCAGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCAGCAATCCTAAAC 360
Sbjct  301  GTGCTTGCAGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCAGCAATCCTAAAC 360
Query   361  CTCAAAGAAAAACCAACGTAACACCAACCGTCGCGCCACAGGACGTCAAGTTCCTGGGGT 420
Sbjct  361  CTCAAAGAAAAACCAACGTAACACCAACCGTCGCGCCACAGGACGTCAAGTTCCTGGGGT 420
Query   421  GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGGCCGCGAGGGGCCCTAGATTGGGTGTGC 480
Sbjct  421  GCGGTTCAGATCGTTGGTGGAGTTTACTTGTGGCCGCGAGGGGCCCTAGATTGGGTGTGC 480
Query   481  GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCTATGCCCA 540
Sbjct  481  GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCTATGCCCA 540
Query   541  AGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGGCCGGGTACCCCTTGGCCCCCTATG 600
Sbjct  541  AGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGGCCGGGTACCCCTTGGCCCCCTATG 600
Query   601  GCAATGAGGGTTGCGGGTGGGCGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCATAGCT 660
Sbjct  601  GCAATGAGGGTTGCGGGTGGGCGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCATAGCT 660
Query   661  GGGGCCCCACAGACCCCCGGCTAGGTGCGCAATTTGGGTAAAGGTATCGATACCCCTTA 720
Sbjct  661  GGGGCCCCACAGACCCCCGGCTAGGTGCGCAATTTGGGTAAAGGTATCGATACCCCTTA 720

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Query	721	CGTGGCGGTTTCGCCGACCTCATGGGGTACATACCGCTCGTGGCGCCCTCTTGGAGCGG	780
Sbjct	721	CGTGGCGGTTTCGCCGACCTCATGGGGTACATACCGCTCGTGGCGCCCTCTTGGAGCGG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTTCGGGGTCTTGAAGACGGCGTGAACATATCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTTCGGGGTCTTGAAGACGGCGTGAACATATCAACAG	840
Query	841	GGAACTTCCTGGTTGCTCTTTCTATCTTCCTTCGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACTTCCTGGTTGCTCTTTCTATCTTCCTTCGGCCCTGCTCTCTTGCCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGCACAAATTCCTCGGGGCTTACCATGTCAACAAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGCACAAATTCCTCGGGGCTTACCATGTCAACAAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGCGCGCCGACCTCGACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGCGCGCCGATGCCATCTCGACACTCCGGGGTGTG	1020
Query	1021	TCCTTTCGCGTTCGCGAGGGTAACGCGCTCAGGTGTTGGGTGGCGGTGACCCCCAGGTGG	1080
Sbjct	1021	TCCTTTCGCGTTCGCGAGGGTAACGCGCTCAGGTGTTGGGTGGCGGTGACCCCCAGGTGG	1080
Query	1081	CCACCAGGACGCGCAAACCTCCCAACAACGCAGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Sbjct	1081	CCACCAGGACGCGCAAACCTCCCAACAACGCAGCTTCGACGTCATATCGATCTGCTTGTGC	1140
Query	1141	GGAGCGCCACCTCTGCTCGGCCCTCTACGTGAGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCTCTGCTCGGCCCTCTACGTGAGGGGACCTGTGCGGGTCTGCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCAGGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGGCATATAACGGGTCAATCGCATGGCATGGGATATGATGATGAACGTGT	1320
Sbjct	1261	CTATCTATCCCGGGCATATAACGGGTCAATCGCATGGCATGGGATATGATGATGAACGTGT	1320
Query	1321	CCCTACCGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGGCATCATGGACA	1380
Sbjct	1321	CCCTACCGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGGCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCCTCATGTTGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCCTCATGTTGGGA	1440
Query	1441	ACTGGCGAAGGTCCTGGTAGTCTGCTGCTATTGGCGGGCTGCAGCGG	1490
Sbjct	1441	ACTGGCGAAGGTCCTGGTAGTCTGCTGCTATTGGCGGGCTGCAGCGG	1490

>dbj|BD426989.1| METHODS FOR CULTURING HCV IN EUKARYOTIC CELLS
Length=9185

Score = 1.482e+04 bits (8027), Expect = 0.0
Identities = 8806/9192 (95%), Gaps = 14/9192 (0%)
Strand=Plus/Plus

[illegible]

Query	263	GTITGGGTCGCGAAAGGCCITGTGGTACTGCCTGATAGGGTGCTTGCAGAGTGCCCGGGAG	322
Sbjct	241	GTITGGGTCGCGAAAGGCCITGTGGTACTGCCTGATAGGGTGCTTGCAGAGTGCCCGGGAG	300
Query	323	GTCCTCGTAGACCGGTGACCATGAGCAGCAATCCTAAACCTCAAAGAAAAACAACGTAA	382
Sbjct	301	GTCCTCGTAGACCGGTGACCATGAGCAGCAATCCTAAACCTCAAAGAAAAACAACGTAA	360
Query	383	CACCAACCGTCGCCCACAGGACGTCAGTTCCCGGGTGGCGGTGAGTTCGTTGGTGGAGT	442
Sbjct	361	CACCAACCGTCGCCCACAGGACGTCAGTTCCCGGGTGGCGGTGAGTTCGTTGGTGGAGT	420
Query	443	TTACTTGTGTGCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502
Sbjct	421	TTACTTGTGTGCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	480
Query	503	GCGGTGCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCACGTGCGGCCGAGGGCAG	562
Sbjct	481	GCGGTGCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCCTGTCGCGGCCGAGGGCAG	540
Query	563	GACCTGGGCTCAGCCCGGGTACCCCTTGGCCCTCTATGGCAATGAGGGCTGCGGGTGGGC	622
Sbjct	541	GACCTGGGCTCAGCCCGGGTACCCCTTGGCCCTCTATGGCAATGAGGGCTGCGGGTGGGC	600
Query	623	GGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGCTGGGGCCCCACAGACCCCGGGG	682
Sbjct	601	GGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGCTGGGGCCCCACAGACCCCGGGG	660
Query	683	TAGGTCGCGCAATTGGGTAAGGTCATCGATACCCCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661	TAGGTCGCGCAATTGGGTAAGGTCATCGATACCCCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCCGCTCGTCGGCGCCCTCTTGGAGGCGCTGCCAGGGCCCTGCGCATGG	802
Sbjct	721	GGGGTACATACCCGCTCGTCGGCGCCCTCTTGGAGGCGCTGCCAGGGCCCTGCGCATGG	780
Query	803	CGTCCGGGTTCTGGAAGACGCGTGAACATGCAACAGGGAACTTCTGGTTGCTCTTT	862
Sbjct	781	CGTCCGGGTTCTGGAAGACGCGTGAACATGCAACAGGGAACTTCTGGTTGCTCTTT	840
Query	863	CTCTATCTTCTTCTGGCCCTGCTCTTGTGCTGACTGTGCCCGCTTCAGCCTACCAAGT	922
Sbjct	841	CTCTATCTTCTTCTGGCCCTGCTCTTGTGCTGACTGTGCCCGCTTCAGCCTACCAAGT	900
Query	923	GCGCAATTCTCGGGGCTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAATCCACGGGGCTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGGCGGATGCCATCTGCACACTCCGGGGTGTGTCCTTCGCTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCGGGCGGATGCCATCTGCACACTCCGGGGTGTGTCCTTCGCTTCGCGAGGGCAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACAGGGACGGCAAACTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACAGGGATGGCAAACTCCC	1080
Query	1103	CACAACGCGAGCTTCGACGTCATATCGATCTGCTTGTGCGGAGCGCCACCTCTGCTCGGC	1162
Sbjct	1081	CAGCAGCGAGCTTCGACGTCATATCGATCTGCTTGTGCGGAGCGCCACCTCTGCTCGGC	1140
Query	1163	CCCTACGTGGGGGACCTGTGCGGGTCTGCTTCTTGTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	CCCTACGTGGGGGACCTATGCGGGTCTGCTTCTTGTGGTCAACTGTTTACCTTCTC	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGGCCATATAAC	1282
Sbjct	1201	TCCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCTCTATCTATCCCGGCCATATAAC	1260
Query	1283	GGGTATCATCGATGGCATGGGATATGATGATGAACGTGCCCTACGGCAGCGTTGGTGT	1342
Sbjct	1261	GGGTATCATCGATGGCATGGGATATGATGATGAACGTGCCCTACGGCAGCGTTGGTGT	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGTGGTGTCTACTGGGG	1402
Sbjct	1321	AGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACATGATCGTGGTGTCTACTGGGG	1380

Query	1403	AGTCTCTGGCGGGCATAGCGTATTTCTCCATGTTGGGGAACCTGGCGGAAGGTCCTGGTAGT	1462
Sbjct	1381	AGTCTCTGGCGGGCATAGCGTATTTCTCCATGTTGGGGAACCTGGCGGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTATTTGCCGGCGTCGACGCGGAAACCCAGCTCACCGGGGAAATGCCGGCGC	1522
Sbjct	1441	GCTGCTGCTATTATTTGCCGGCGTCGACGCGGAAACCCAGCTCACCGGGGAAATGCCGGCCA	1500
Query	1523	CACCACGGCTGGGCTTGTGTGCTCCTTACACCAGGCGCCAAGCAGAACATCCAACCTGAT	1582
Sbjct	1501	CACCTGTGCTGGATTGTGAGCCTCCTCGACACGAGCGCCAAGCAGAACATCCAACCTGAT	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCTTGAATTGCAATGATAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATCAACTCTTCAGGCTGCTCTGA	1702
Sbjct	1621	CACCGGCTGGTTAGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGCTCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCCTTACCGATTTTGCCACGGGCTGGGGTCCTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGGCTCGACGAACGCCCTACTGCTGGCACTACCTCCAAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGGCCCGACGACGCCCTACTGCTGGCACTACCCCCAAAGACCTTG	1800
Query	1823	TGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCAGCCCCGT	1882
Sbjct	1801	CGGTATGTGTCGCCGCAAGAGTGTGTGTGGTCCGGTATATTGCTTCACTCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACGACAGGTGCGGCGCGCCTACCTACAGCTGGGGTGCAAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACGACAGGTGCGGCGCGCCACCTACAGCTGGGGTGAAAAATGATAC	1920
Query	1943	GGATGCTCTTCGTCCTTAAACAACACACGAGCCACCGCTGGGCAATTGGTTTCGGTTGTACCTG	2002
Sbjct	1921	GGACGCTCTTCGTCCTTAAACAATACACGAGCCACCGCTGGGCAATTGGTTTCGGTTGTACCTG	1980
Query	2003	GATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981	GATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGCCCTCTTGTGTCATCGGAGGGGC	2040
Query	2063	GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACTCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAGCATCCGGAGCCACATA	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGATATAG	2182
Sbjct	2101	CTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGTGCTGGTCGACTACCCGATATAG	2160
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCAATATCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCAATATCCTTGTACCATCAACTACACCAATATTTAAATTCAGGATGTACGTGGG	2220
Query	2243	AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTCGAACACAGGCTGGAAGCTGCCGCAACTGGACGCGGGGCGAACGCTGTGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCGTTGCTGCTGCCACACAGATGGCAGGT	2362
Sbjct	2281	GGAAGACAGGGACAGGTCCGAGCTCAGCCGTTACTGCTGACCACTACACAGTGGCAGGT	2340
Query	2363	CCTCCGTTGTTCTTTCACGACCCTGCCAGCCTTGTCCACCGGCTCATCCACCTCCACCA	2422
Sbjct	2341	CCTCCGTTGTTCTTTCACAACCTACCAGCCTTGTCCACCGGCTCATCCACCTCCACCA	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTTCGAGACGCGCGCTGCTCCTTG	2542
Sbjct	2461	TAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTTCGAGACGCGCGCTGCTCCTTG	2520

Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGCGCGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGCGCGCTTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCTCGTGTCTCTCTGCTT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCTCTCTCGTGTCTCTCTGCTT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TGCAATGGTATTGAAGGGTAAGTGGGTGCCCGGAGCGGTCTACACCTCTACGGGATGTG	2700
Query	2723	GCCTCTCTCTCTGCTCTGCTGGCGTTGCCTCAGCGGGCATAACGACTGGACACGGAGGT	2782
Sbjct	2701	GCCTCTCTCTCTGCTCTGCTGGCGTTGCCCGAGCGGGCCTACGCGCTGGACACGGAGGT	2760
Query	2783	GGCCGCGTCTGTTGGCGGCGTGTCTTCTGTCGGGTAAATGGCGCTGACTCTGTGCCATA	2842
Sbjct	2761	GGCCGCGTCTGTTGGCGGCGTGTCTTCTGTCGGGTGATGGCGCTGACTCTGTACCATA	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGATGTGGTGGCTTCAGTATTCTTGACCAGAGTAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCTTGTGGTGGCTTCAGTATTCTTGACCAGAGTGA	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTccccccTCAACGTCGgggggggCGCATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCCCCTCAACGTCGAGGGGGGCGCAGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCTGGTATTGACATCACCAAACTACTCCTGG	3021
Sbjct	2941	CTTACTCATGTGTGTG-TACACCCGACTCTGGTATTGACATCACCAAACTGCTGCTGG	2999
Query	3022	CAATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCCTTAAAGTCCCTACTTCGTGC	3081
Sbjct	3000	CGGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	CGGTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGCTATTAC	3140
Sbjct	3060	CGGTTCAAGGCCCTTCTCCGGTCTGCGCGCTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAAATGGTCATCAATAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201	ACCCCTCTTCGAGACTGGGGCGCACACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCTCTTCGGGACTGGGGCGCACACGGCTTGCAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTGCTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACGCCCGGTGC	3320
Sbjct	3239	GTGCTCTTCTCCCAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACGCCCGGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTCCCCGTCTCTGCCCGTAGGGGGCAGGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCCGTGTTCCGCCCGAGGGGGCAGGAGATACTGCTCGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTTGTGTCGCCCATCACGGGTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGTGGAGGTTGTGTCGCCCATCACGGGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCGCTCTAGGGTGTAATACACGAGCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACAGGGGCGCTCTAGGGTGTAATACACGAGCTTAACTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCAAACTTCTGGCAACGTGC	3560
Sbjct	3479	CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCAAACCTTCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGGTACCC	3598
Query	3621	AAGGGTCTGTGCTACCATGATATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCTGTGCTACCATGATATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658

Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCGTGACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	CGCAAGGTAGCCGCTCATTGACACCCGTGACCTTGCCTGCGGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGGTGATAGCAGGGGTAGCCTGCTG	3778
Query	3801	TCGCCCCGGGCCATTTCCTACTTGAAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCGCG	3860
Sbjct	3779	TCGCCCCGGGCCATTTCCTACTTGAAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCGCG	3838
Query	3861	GGACACGCCGTGGGCTATTTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGCACGCCGTGGGCTATTTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTCACGGATAAC	3958
Query	3981	TCTCTCCACCAGCAGTGTCCCGAGAGCTTCCAGGTGGCCACCTGCATGCTCCACCCTGGC	4040
Sbjct	3959	TCTCTCCACCAGTAGTGTCCCGAGAGCTTCCAGGTGGCTACCTCCATGCTCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAAGTCCCAGGCTGCGTACGCAGCCAGGGCTACAAGGTTGTTGGT	4100
Sbjct	4019	AGCGGCAAAAGCACCAAGTCCCAGGCTGCATATGCAGCTCAGGGCTATAAGGTTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCAAGGCCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCAAGGGCTCATGGG	4138
Query	4161	GTGATCCTTAATATCAGGACCGGGGTGAGAACAAATACCACTGGCAGCCCCATCAGTAC	4220
Sbjct	4139	ATCGATCCTTAACATCAGGACCGGGGTGAGAACAAATACCACTGGCAGCCCCATCAGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACCTACGGCAAGTTCCTTGCCGACGCGGGTGCTCGGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGAITGCCACATCCATCTTGGGCATCGGCACCTGTCCTT	4340
Sbjct	4259	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACCTGTCCTT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACCACCACCCCTCCGGGC	4378
Query	4401	TCCGTCACTGTGTCCCATCTAACATCGAGGAGTGTCTGTGCCACCACCGGAGAGATC	4460
Sbjct	4379	TCCGTCACTGTGTCCCATCCCAACATCGAGGAGTGTCTGTGCCACCACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGAAGTGGCAGGAGCTCGCCCGGAAGCTGGTCGCATTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAAGAAGAAGTGGCAGGAACTCGCCCGCAAAGCTGGTCGCATTGGGCATCAAT	4558
Query	4581	GCCGTGGCTTACTACCGCGGCTTTGACGTGTCTGTCAATCCCGACAGCGGGCATGTTGTC	4640
Sbjct	4559	GCCGTGGCTTACTACCGCGGCTTTGACGTGTCTGTCAATCCCGACAGCGGGCATGTTGTC	4618
Query	4641	GTCGTGTGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4619	GTCGTGGCAACCGATGCCCTCATGACCGCTATACCGGCGACTTCGACTTCGGTGATAGAC	4678
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTACAGCCTTGACCTACCTTTACCAATTGAG	4760
Sbjct	4679	TGCAATACGTGTGTCAACCGACAGTCGATTTACAGCCTTGACCTACCTTTACCAATTGAG	4738
Query	4761	ACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739	ACAATCAAGCTCCCCAGGATGCTGTCTCCCGACTCAACGTGGGGGCAGGACTGGCAGG	4798

Query	4821	GGGAAGCCAGGCATCTATAGATTTTGTGGCACC	GGGGGAGCGCCCTCCGGCATGTTTCGAC	4880
Sbjct	4799	GGGAAGCCAGGCATCTACAGATTTTGTGGCACC	GGGGGAGCGCCCTCCGGCATGTTTCGAC	4858
Query	4881	TCGTCGGTCCCTCTGTGAGTGCTATGACGCGG	GCTGTGCTTGGTATGAGCTCACGCCCGCC	4940
Sbjct	4859	TCGTCGGTCCCTCTGTGAGTGCTATGACGAGG	CTGTGCTTGGTATGAGCTCACGCCCGCC	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAAC	ACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAAC	ACCCCGGGGCTTCCCGTGTGCCAGGAC	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGG	CCTCACTCATATAGATGCCCACTTTT	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGG	CCTCACTCATATAGATGCCCACTTTT	5038
Query	5061	TCCAGACAAAGCAGAGTGGGAGAACTTTCCTT	ACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	TCCAGACAAAGCAGAGTGGGAGAACTTTCCTT	ACCTGGTAGCGTACCAAGCCACCGTG	5098
Query	5121	TGCGTAGGGGCTCAAGCCCTCCCCCATCGTGG	GACAGATGTGGAAGTGTGTTGATCCGC	5180
Sbjct	5099	TGCGTAGGGGCTCAAGCCCTCCCCCATCGTGG	GACAGATGTGGAAGTGTGTTGATCCGC	5158
Query	5181	CTTAACCCACCCCTCCATGGGCCAACACCCCT	GTCTATACAGACTGGGCGCTGTTTCAGAA	5240
Sbjct	5159	CTCAAGCCACCCCTCCATGGGCCAACACCCCT	GTCTATACAGACTGGGCGCTGTTTCAGAA	5218
Query	5241	GAAGTCAACCTGACGACCCCAATACCAAATACA	TATGACATGCATGTCGGCCGACCTG	5300
Sbjct	5219	GAATTCACCTGACGACCCCAATACCAAATACA	TATGACATGCATGTCGGCCGACCTG	5278
Query	5301	GAGGTCGTACAGAGCACTGGGTGCTCGTTGGC	GGCGTCTTGGCCGCGTAT	5360
Sbjct	5279	GAGGTCGTACAGAGCACTGGGTGCTCGTTGGC	GGCGTCTTGGCCGCGTAT	5338
Query	5361	TGCGTGTCAACAGGCTGCGTGGTCATAGTGGG	CAGGATCGTCTTGTCCGGGAAGCCGGCA	5420
Sbjct	5339	TGCGTGTCAACAGGCTGCGTGGTCATAGTGGG	CAGGATCGTCTTGTCCGGGAAGCCGGCA	5398
Query	5421	ATTATACCTGACAGGGAGGTCTCTACC-AGGAG	TTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	ATCATACCTGACAGGGAGGTCTCTACCAG-AGT	TTCGATGAGATGGAAGAGTGCTCTCA	5457
Query	5480	GCACITACCGTACATCGAGCAAGGGATGATGCT	CGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	GCACITACCGTACATCGAGCAAGGGATGATGCT	CGCCGAGCAGTTCAAGCAGAAGGCCCT	5517
Query	5540	CGGCTCCTGACAGCCGCGTCCCGCCATGCGAGG	TTATCACCCCTGCTGTTCAGACAA	5599
Sbjct	5518	CGGCTCCTGACAGCCGCGTCCCGCTACGGCAG	AGGTATCGCCCTGCTGTTCAGACAA	5577
Query	5600	CTGGCAGAACTCGAGGTCTTTTGGGCGAAGCA	ATGTGGAATTTTCATCAGTGGGATACA	5659
Sbjct	5578	CTGGCAAAACTCGAGACCTTCTGGGCGAAGCA	TATGTGGAATTTTCATCAGTGGGATACA	5637
Query	5660	ATACTTGGCGGGCTGTCAACGCTGCTGGTAAC	CCCGCCATTTGCTTCATTGATGGCTTT	5719
Sbjct	5638	ATACTTGGCGGGCTGTCAACGCTGCTGGTAAC	CCCGCCATTTGCTTCATTGATGGCTTT	5697
Query	5720	TACAGCTGGCGGTACAGCCCACTAACCACTGGC	CAACCTCTCTTCAACATATT	5779
Sbjct	5698	TACAGCTGCTGTACCAAGCCCACTAACCACTAG	CAACCTCTCTTCAACATATT	5757
Query	5780	GGGTTGGTGGCTGCCAGCTCGCCGCCCGCGGT	GCGCTACTGCTTTGTGGGTGCTGG	5839
Sbjct	5758	GGGTTGGTGGCTGCCAGCTCGCCGCCCGCGGT	GCGCTACTGCTTTGTGGGTGCTGG	5817
Query	5840	CCTAGCTGGCGCCGCATCGGCAGCGTTGGACT	TGGGAAGTCTCGTGGACATCTTGC	5899
Sbjct	5818	CTTAGCTGGCGCCGCATCGGCAGTGTGGACT	TGGGAAGTCTCATAGACATCTTGC	5877
Query	5900	AGGGTATGGCGGGGCGTGGCGGGAGCTCTTGT	AGCATTTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGGGGCGTGGCGGGAGCTCTTGT	AGCATTTCAAGATCATGAGCGGTGAGGT	5937

Query	5960	CCCCGCCACGGAGGACCTGGTCAATCTGCTGCCGCCATCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCGCCACGGAGGACCTGGTCAATCTACTGCCGCCATCTCTCGCCCGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGTGTGGCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGTCAGCAATACTGCGCCGGCAGTGTGGCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCACGCA	6139
Sbjct	6058	GCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCACGCA	6117
Query	6140	CTACGTGCCGGAGAGCGATGACGCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGATGACGCTGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTCCTGAGCGCACTGCATCAGTGGATAAGCTCGGAGTGTAACCATCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGCGCACTGCACCACTGGATAAGCTCGGAGTGTAACCATCCATGCTC	6237
Query	6260	CGGTTCTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	CGGTTCTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6297
Query	6320	CTGGCTGAAGGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGCTCTGCCACGG	6379
Sbjct	6298	CTGGCTGAAGGCTAAGCTCATGCCACAAGCTGCCTGGGATCCCTTTGTGCTCTGCCACGG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	CGGGTATAGGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCA	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCAATTAAACGCCTACACCACGGGCCCTGTACTCCCC	6558
Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCAATTAAAGCCTACACCACGGGCCCTGTATCCCC	6536
Query	6559	TTCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCTGCGCCGAACATACAGTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596
Query	6619	TAAGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGCGAGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
Query	6678	CGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGACGGGTGCGCCTACACAGG	6737
Sbjct	6656	CGTGCCAGGTCCCATCGCCGAATTTTTCACAGAATTGGACGGGTGCGCCTACATAGG	6715
Query	6738	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6797
Sbjct	6716	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6775
Query	6798	GAGTACCCGGTGGGGTCGAATTACCTTGCGAGCCCGAACCCGACGTAGCCGTTGTGAGC	6857
Sbjct	6776	GAATACCCGGTAGGGTCGAATTACCTTGCGAGCCCGAACCCGACGTAGCCGTTGTGAGC	6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGGCGGAGAGGTGGCGAGA	6917
Sbjct	6836	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGGCGGAGAGGTGGCGAG-	6894
Query	6918	GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCGCTCCATCTCTCAA	6976
Sbjct	6895	GGGATACCCCTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCGCTCCATCTCTCAA	6954
Query	6977	GGCAACTTGACCCGCCAACCATGACTCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955	GGCAACTTGACCCGCTAACCATGACTCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT	7014
Query	7037	GTGGAGGCAGAGATGGGCGCAACATACCAAGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015	ATGGAGGCAGAGATGGGCGCAACATACCAAGGTTGAGTCAGAGAACAAAGTGGTGAT	7074

Query	7097	TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075	TCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157	AGAAATTCGCGGAAGTCTCGGAGATTGCCCGGGCCCTGCCGCTCGGGCGCGCCGGA	7216
Sbjct	7135	AGAAATTCGCGGAAGTCTCGGAGATTGCCCGAGCCCTGCCGCTTGGGCGCGCCGGA	7194
Query	7217	CTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACTGTGGTCCA	7276
Sbjct	7195	CTATAACCCCCGCTAGTAGGAGACGTGGAAAAAGCCGACTACGAACCACTGTGGTCCA	7254
Query	7277	TGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCTCCGCCCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TGGCTGTCCGCTTCCACCTCCAAAGTCCCTCCTGTGCCTCCGCCCTCGGAAGAGCGGAC	7314
Query	7337	GGTGGTCTCTACCGAATCAACCCCTATCTACTGCCTTGGCCGAGCTTGCACCAAAAGTTT	7396
Sbjct	7315	GGTGGTCTCTACTGAATCAACCCCTATCTACTGCCTTGGCCGAGCTCGCCACAGAAGCTT	7374
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAAGACAAATCCTCTGAGCCCGC	7456
Sbjct	7375	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAAGACAAATCCTCTGAGCCCGC	7434
Query	7457	CCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCTATTCTTCCATGCCCCCGGTGA	7516
Sbjct	7435	CCCTTCTGGCTGCCCCCGGACTCCGACGCTGAGTCTATTCTCTCATGCCCCCGGTGA	7494
Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGGTCAGTAGTGGGGC	7576
Sbjct	7495	GGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCATGGTCACAGGTCAGTAGTAGGC	7554
Query	7577	CGACACGGGAAGTGTGCTGTGCTGCTCAATGTCTTATTCCTGGACAGCGCACTCTGTAC	7636
Sbjct	7555	CAACGCGGAGGATGTGCTGTGCTGCTCAATGTCTTACTCTTGGACAGCGCACTCTGTAC	7614
Query	7637	CCCGTGCCTGCGGAAGAACAACAACTGCCATCAACGCACTGAGCAACTCGTGTGTACG	7696
Sbjct	7615	CCCGTGCCTGCGGAAGAACAAGAACTGCCATCAATGCACTAAGCAACTCGTGTGTACG	7674
Query	7697	CCATCACAATCTGGTGATTCCACCACCTTCACGCAAGTCTTGCCAAAGGCAGAAGAAAGT	7756
Sbjct	7675	TCACCACAATTTGGTGATTCCACCACCTTCACGCAAGTCTTGCCAAAGGCAGAAGAAAGT	7734
Query	7757	CACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAGCTGCTCAAGGAGGTCAA	7816
Sbjct	7735	CACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAGCTACTCAAGGAGGTAA	7794
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7876
Sbjct	7795	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7854
Query	7877	GCCCCACATTACGACCAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCTGTTGCCATGC	7936
Sbjct	7855	GCCCCACACTACGACCAATCCAAGTTTGGTTATGGGGCAAAAGACGTCCTGTTGCCATGC	7914
Query	7937	CAGAAAGGCGGTAGCCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAC	7996
Sbjct	7915	CAGAAAGGCGGTAAACCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACATGTAAAC	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAAGACGAGTTTCTGCGTTACGCTCAGAAAGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTACGCTCAGAAAGG	8034
Query	8057	GGGTGTAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGCGTGCAGGTGTGCGAGAA	8116
Sbjct	8035	GGGTGTAAGCCAGCTCGTCTCATCGTGTTCGCCGATCTGGGCGTGCAGGTGTGCGAGAA	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095	GATGGCTTTGTACGACGTGGTTA-CAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8153
Query	8176	GATTCCAATACTACCAAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGAAGTCCAAGA	8235
Sbjct	8154	GATTCCAATACTACCAAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGAAGTCCAAGA	8213

Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214	AAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCG	8273
Query	8296	ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCAAGCCCGCGTGG	8355
Sbjct	8274	ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGCACCCCAAGCCCGCGTGG	8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
Sbjct	8334	CCATCAAGTCCCTCACCGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8393
Query	8416	AAAAGTGGCGTACCGCAGGTGCCGCGGAGCGCGTACTGACAACTAGCTGTGGTAACA	8475
Sbjct	8394	AGAAGTGGCGCTATCGCAGGTGCCGCGGAGCGCGTACTGACAACTAGCTGTGGTAACA	8453
Query	8476	CCCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTGAGCCGAGGGCTCCAGGACTGCA	8535
Sbjct	8454	CCCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTGAGCCGAGGGCTCCAGGACTGCA	8513
Query	8536	CGATGCTCGTGTGTGGCGACGACTTAGTCTGTTATCTGTGAAAGTGCAGGGGTCCAGGAGG	8595
Sbjct	8514	CGATGCTCGTGTGTGGCGACGACTTAGTCTGTTATCTGTGAAAGTGCAGGGGTCCAGGAGG	8573
Query	8596	ACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCGcccccccgggg	8655
Sbjct	8574	ACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCGCCCCCCTGGGG	8633
Query	8656	cccccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCCTCCAACGTGTCAG	8715
Sbjct	8634	ACCCCCCAACACAGAATACGACTTGGAGCTCATAAATCATGCTCCCTCCAACGTGTCAG	8693
Query	8716	TGCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCCGTACCCCTACAACCCCC	8775
Sbjct	8694	TGCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCCGTACCCCTACAACCCCC	8753
Query	8776	TCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTTGGCTAGGCAACA	8835
Sbjct	8754	TCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTTGGCTAGGCAACA	8813
Query	8836	TAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTCTTTAGCG	8895
Sbjct	8814	TAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTCTTTAGCG	8873
Query	8896	TCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGAGATCTACGGAGCCTGCT	8955
Sbjct	8874	TCCTTATAGCCAGGGACAGCTTGAACAGGCTCGATTGCGAGATCTACGGGCGCTGCT	8933
Query	8956	ACTCCATAGAACCACTTGAATCTACCTCCAATCATTTCAAAGACTCCATGGCCTCAGCGCAT	9015
Sbjct	8934	ACTCCATAGAACCACTTGAATCTACCTCCAATCATTTCAAAGACTCCATGGCCTCAGCGCAT	8993
Query	9016	TTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCGATGCCTCAGAAAAC	9075
Sbjct	8994	TTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCCGCGATGCCTCAGAAAAC	9053
Query	9076	TTGGGGTCCCCCCTTGGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTC	9135
Sbjct	9054	TTGGGGTACCGCCTTGGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTC	9113
Query	9136	TGTCCAGAGGAGGCGGGCTGCCATATGTGGCAAGTACCTCTTCAACTTGGGCAGTAAGAA	9195
Sbjct	9114	TGGCCAGAGGAGGCGGGCTGCCATATGTGGCAAGTACCTCTTCAACTTGGGCAGTAAGAA	9173
Query	9196	CAAAGCTCAAAC 9207	
Sbjct	9174	CAAAGCTCAAAC 9185	

>dbj|BD091382.1| HCV cultivation method in eucaryotic cells
Length=9185

Score = 1.482e+04 bits (8027), Expect = 0.0
Identities = 8806/9192 (95%), Gaps = 14/9192 (0%)
Strand=Plus/Plus

Query	23	CACTCCACCATGAATCACTCCCCTGTGAGGAAGTACTGTCTTACGCAGAAAGCGTCTAG	82
Sbjct	1	CACTCCACCATGAATCACTCCCCTGTGAGGAAGTACTGTCTTACGCAGAAAGCGTCTAG	60
Query	83	CCATGGCGTTAGTATGAGTGTGTCAGCCTCCAGGAAGCGCGGAGAGGCATA	142
Sbjct	61	CCATGGCGTTAGTATGAGTGTGTCAGCCTCCAGGAAGCGCGGAGAGGCATA	120
Query	143	GTGGTCTGCGGAACCGGTGAGTACACCGAATTGCCAGGACGACCGGGTCTTTCTTGGA	202
Sbjct	121	GTGGTCTGCGGAACCGGTGAGTACACCGAATTGCCAGGACGACCGGGTCTTTCTTGGA	180
Query	203	TAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCCGAAGACTGCTAGCCGAGTAGT	262
Sbjct	181	TCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCCGAAGACTGCTAGCCGAGTAGT	240
Query	263	GTTGGGTGCGGAAAGGCCCTTGTGGTACTGCTGATAGGGTGCTTGCAGTGCCCCGGGAG	322
Sbjct	241	GTTGGGTGCGGAAAGGCCCTTGTGGTACTGCTGATAGGGTGCTTGCAGTGCCCCGGGAG	300
Query	323	GTCCTGTAGACCGGTGACCATGAGCAGCAATCCTAAACCTCAAAGAAAACAAACGTAA	382
Sbjct	301	GTCCTGTAGACCGGTGACCATGAGCAGCAATCCTAAACCTCAAAGAAAACAAACGTAA	360
Query	383	CACCAACCGTCGCCACAGGACGTCAGTTCCCGGGTGGCGGTGAGTCTGTTGGTGGAGT	442
Sbjct	361	CACCAACCGTCGCCACAGGACGTCAGTTCCCGGGTGGCGGTGAGTCTGTTGGTGGAGT	420
Query	443	TTACTTGTTCGCCGCGAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502
Sbjct	421	TTACTTGTTCGCCGCGAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	480
Query	503	CGGGTTCGCAACCTCGAGGTAGACGTACGCTATCCCCAAGGCACGTGCGGCCGAGGGCAG	562
Sbjct	481	CGGGTTCGCAACCTCGAGGTAGACGTACGCTATCCCCAAGGCCTGTCGCGGCCGAGGGCAG	540
Query	563	GACCTGGGCTCAGCCCGGTACCCCTTGGCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541	GACCTGGGCTCAGCCCGGTACCCCTTGGCCCTCTATGGCAATGAGGGCTGCGGGTGGGC	600
Query	623	GGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGCTGGGGCCCCACAGACCCCGGGG	682
Sbjct	601	GGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGCTGGGGCCCCACAGACCCCGGGG	660
Query	683	TAGGTGCGCAATTGGGTAAGGTCATCGATACCCCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661	TAGGTGCGCAATTGGGTAAGGTCATCGATACCCCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGCGCTGCCAGGGCCCTGCGCATGG	802
Sbjct	721	GGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGCGCTGCCAGGGCCCTGCGCATGG	780
Query	803	CGTCCGGGTTCCTGGAAGACGGCGTGAACCTATGCAACAGGGAACTTCCTGGTTGCTCTT	862
Sbjct	781	CGTCCGGGTTCCTGGAAGACGGCGTGAACCTATGCAACAGGGAACTTCCTGGTTGCTCTT	840
Query	863	CTCTATCTTCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCGCTTCAGCCTACCAAGT	922
Sbjct	841	CTCTATCTTCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCGCTTCGGCCTACCAAGT	900
Query	923	GCAGAAATTCCTCGGGGCTTTACCATGTACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCAGAAATTCCTCGGGGCTTTACCATGTACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCGGATGCCATCTGCACACTCCGGGTGTGTCCTTGCCTGCGAGGGGTAA	1042
Sbjct	961	CGAGGCGGCGGATGCCATCTGCACACTCCGGGTGTGTCCTTGCCTGCGAGGGGTAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACAGGGACGGCAAACTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACAGGGATGCAAACTCCC	1080
Query	1103	CACAACGCACTTCGACGTCATATCGATCTGCTTGTGCGGAGCGCCACCTCTGCTCGGC	1162
Sbjct	1081	CCGGACGCACTTCGACGTCATATCGATCTGCTTGTGCGGAGCGCCACCTCTGCTCGGC	1140

Query	1163	CCTCTACGTGGGGACCTGTGCGGGTCTGCTTTCTTGTGTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGGACCTATGCGGGTCTGCTTTCTTGTGTGGCAACTGTTTACCTTCTC	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCGGCCATATAAC	1282
Sbjct	1201	TCCCAGGCGCCACTGGACGACGCAAGGTGCAATTGCTCTATCTATCCGGCCATATAAC	1260
Query	1283	GGGTTCATCGCATGGCATGGGATATGATGATGAACCTGGTCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261	GGGTTCACCGCATGGCATGGGATATGATGATGAACCTGGTCCCTACGACGGCGTTGGTAAT	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACATGATCGTGGTGTCTACTGGGG	1402
Sbjct	1321	GGCTCAGCTGCTCCGGATCCCAAGCCATCTTGGACATGATCGTGGTGTCTACTGGGG	1380
Query	1403	AGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACCTGGCGAAGGTCCTGGTAGT	1462
Sbjct	1381	AGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACCTGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTGTGCGGCGTCGACGCGGAAACCCAGCTCACCAGGGGGAATGCGGGCGG	1522
Sbjct	1441	GCTGCTGCTATTGTGCGGCGTCGACGCGGAAACCCAGCTCACCAGGGGGAATGCGGGCCA	1500
Query	1523	CACCACGGCTGGGCTTGTGGTCTCCTTACACACAGGCGCCAAGCAGAACATCCAACCTGAT	1582
Sbjct	1501	CACCTGTGCTGGATTGTGTAGCCCTCTCGACACAGGCGCCAAGCAGAACCTCAGCTGAT	1560
Query	1583	CAACACCAACCGGAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCCTTAA	1642
Sbjct	1561	CACACACCAACCGGAGTTGGCACCTCAATAGCACGGCCTGCACTGCAATGATAGCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGCTCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGCTCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCCTTACCGATTTTGCCACAGGGCTGGGGTCTCTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACGCCCTTACCGATTTTGACCAGGGCTGGGGCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGGCTCGACGAACGCCCTACTGCTGGCACTACCCCTCCAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGGCCCGACGAGCGCCCTACTGCTGGCACTACCCCCAAAACCTTG	1800
Query	1823	TGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCAGCCCCGT	1882
Sbjct	1801	CGGTATTGTGCCCGCAAGAGTGTGTGGTCCGGTATATTGCTTCACTCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACGACAGGTGCGGCGCGCCTACCTACAGCTGGGGTGCAAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACGACAGGTGCGGCGCGCCACCTACAGCTGGGGTGAAAATGATAC	1920
Query	1943	GGATGTCTTCGTCTTAAACAACACACAGGCCACCGCTGGGCAATTGGTTTCGGTTGTACCTG	2002
Sbjct	1921	GGACGTCTTCGTCTTAAACAATACAGGCCACCGCTGGGCAATTGGTTTCGGTTGTACCTG	1980
Query	2003	GATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981	GATGAACCTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGC	2040
Query	2063	GGGCAACAAACCTTGCTCTGCCCACTGATTGCTTCGCAACATCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACAAACCTTGCTCTGCCCACTGATTGCTTCGCAACATCCGGAAGCCACATA	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGATGGTCTACTACCCGTATAG	2182
Sbjct	2101	CTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGTGCTGGTCTACTACCCGTATAG	2160
Query	2183	GCTTTGGCACTATCCTTTGTACCATCAATTACACCAATATCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCAATATCCTTTGTACCATCAACTACACCAATATTTAAATACAGGATGTACGTGGG	2220
Query	2243	AGGGGTCGAGCACAGGCTGGAAGCGGCCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTCGAACACAGGCTGGAAGCTGCCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2280

Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbjct	2281	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGCTGACCACTACACAGTGGCAGGT	2340
Query	2363	CTTCCCGTGTCTTTTACGACCCTGCCAGCCTTGTCCACGGGCTCATCCACCTCCACCA	2422
Sbjct	2341	CTTCCCGTGTCTCTTACAAACCCTACCAGCCTTGTCCACGGGCTCATCCACCTCCACCA	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTCTGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCGCGTCTCTGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTGCTTCTCCTGTTCTTCTGCTTGCAGACGCGCGCTGCTCCTG	2542
Sbjct	2461	TAAGTGGGAGTACGTGCTTCTCCTGTTCTTCTGCTTGCAGACGCGCGCTGCTCCTG	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGCGCGCTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGCGCGCTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCTCGTGTCTCTGCTT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCTCGTGTCTCTGCTT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGTGGGTGCCCGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TGCTATGTTATTGAAGGGTAGTGGGTGCCCGAGCGGTCTACACCTTCTACGGGATGTG	2700
Query	2723	GCCTCTCTCTCTGCTCCTGCTGGCGTTGCTCAGCGGGCATAACGCACTGGACACGGAGGT	2782
Sbjct	2701	GCCTCTCTCTCTGCTCCTGTTGGCGTTGCCAGCGGGCGTAGCGCTGGACACGGAGGT	2760
Query	2783	GGCCGCGTCGTGTGGCGGGCGTTGTTCTTGTGGGTTAATGGCGCTGACTCTGTGCGCATA	2842
Sbjct	2761	GGCCGCGTCGTGTGGCGGGTGTGTTCTCTGCGGTTGATGGCGCTGACTCTGTGACCATA	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTGA	2880
Query	2903	AGCGCAACTGCAGGTGCGGTTTCAACGTCGCGGGGGGCGCGATGCGCGTCAT	2962
Sbjct	2881	AGCGCAACTGCAGGTGCGGTTTCCCCCTCAACGTCGCGGGGGGCGCGACGCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCTGGTATTTGACATCACCAACTACTCTGG	3021
Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAATGCTGCTGG	2999
Query	3022	CAATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCTACTTCGTGC	3081
Sbjct	3000	CGGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	GGGTTCGAAGCCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060	GGGTTCGAAGCCCTTCTCCGGTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAAATGGTCAATCAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201	ACCCCTCTTCGAGACTGGGCGCACACGGCTGCGAGATCTGGCCGTGGCTGTGGAAACA	3260
Sbjct	3179	ACTCTCTTCGGGACTGGGCGCACACGGCTGCGAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTGCTCTTCTCCGAAATGGAGACCAAGCTCATCAGTGGGGGCGAGATACCGCCGCGTGC	3320
Sbjct	3239	GTGCTCTTCTCCGAAATGGAGACCAAGCTCATCAGTGGGGGCGAGATACCGCCGCGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCGCTCTGCGCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCCTGTTTCCGCCGCGAGGGGCCGGGAGATACTGCTGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3418

Query	3441	CAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACAAGGGGCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCTGGCAAGCTGC	3560
Sbjct	3479	CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCAAACCTTCTGGCAAGCTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTCACCC	3598
Query	3621	AAGGGTCTCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCTCTGTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCTGTACCTGGCGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	CGCAAGGTAGCGCTCATTGACACCTGCATTGCGGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTATTCCCGTGCCTGGCGGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTATTCCCGTGCCTGGCGGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCCGGGCCATTTCTACTTGAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCCCGG	3860
Sbjct	3779	TCGCCCCGGGCCATTTCTACTTGAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCCCGG	3838
Query	3861	GGACACGCGGTGGGCTATTTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGACGCGCGGTGGGCATATTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAGCGGTG	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTCACGGATAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGTCCCGAGAGCTTCCAGGTGGCCACCTGCATGCTCCACCGGC	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGTCCCGAGAGCTTCCAGGTGGCTCACTCCATGCTCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAAGTCCCAGGCTGCGTACGCAGCCAGGGCTACAAGGTTTGGTG	4100
Sbjct	4019	AGCGGCAAAAGCACCAAGTCCCAGGCTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTGATCCTTAATATCAGGACCGGGTGAGAACAAATTACCACTGGCAGCCCCATACGTAC	4220
Sbjct	4139	ATCGATCCTTAACATCAGGACCGGGTGAGAACAAATTACCACTGGCAGCCCCATACGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGGCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACCTACGGCAAGTTCCTTGGCGACGGCGGGTGCTCGGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTTGTGACAGTGCCACTCCACGGAATGCACATCCATCTTTGGGCATCGGCACTGTCTT	4340
Sbjct	4259	ATTTGTGACAGTGCCACTCCACGGAATGCCACATCCATCTTTGGGCATCGGCACTGTCTT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGG	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACCACCCCTCCGGG	4378
Query	4401	TCGTCACCTGTGTCCCATCTTAACATCGAGGAGTTGCTCTGTGCCACACCGGAGAGATC	4460
Sbjct	4379	TCGTCACCTGTGTCCCATCTTAACATCGAGGAGTTGCTCTGTGCCACACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGCTGGTCGATTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAAGAAGAAGTGCACGAACTCGCCGCAAGCTGGTCGATTGGGCATCAAT	4558

Query	4581	GCCGTGGCCTACTACCGCGGCTTTGACGTGCTGTCATCCGACCAAGCGGCATGTTGTC	4640
Sbjct	4559	GCCGTGGCCTACTACCGCGGCTTTGACGTGCTCCGTCATCCGACCAAGCGGCATGTTGTC	4618
Query	4641	GTCGTGTGCACCGATGCTCTCATGACTGGCTTTACCGGCACTTCGACTCTGTGATAGAC	4700
Sbjct	4619	GTCGTGGCAACCGATGCCCTCATGACCGCTATACCGGCACTTCGACTCGGTGATAGAC	4678
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTTACGCCCTTGACCCACCTTTACCAATTGAG	4760
Sbjct	4679	TGCAATACGTGTGTCAACCGACAGTCGATTTTACGCCCTTGACCCACCTTTACCAATTGAG	4738
Query	4761	ACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCGGGGAGGACTTGGCAGG	4820
Sbjct	4739	ACAATCACGCTCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGGAGGACTTGGCAGG	4798
Query	4821	GGGAAGCCAGGCATCTATAGATTTTGTGGCACCGGGGAGCGCCCCCTCCGGCATGTTTCGAC	4880
Sbjct	4799	GGGAAGCCAGGCATCTACAGATTTTGTGGCACCGGGGAGCGCCCCCTCCGGCATGTTTCGAC	4858
Query	4881	TCGTCGGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4940
Sbjct	4859	TCGTCGGTCTCTGTGAGTGCTATGACGAGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGCTTTTACGGGCCCTCACTCATATAGATGCCCACTTTTCTA	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGCTTTTACAGGCCCTCACTCATATAGATGCCCACTTTTCTA	5038
Query	5061	TCCAGACAAAGCAGAGTGGGGAGAAGCTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	TCCAGACAAAGCAGAGTGGGGAGAAGCTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5098
Query	5121	TGCGTAGGGCTCAAGCCCTCCCCCATCGTGGGACAGATGTGGAAGTGTGTTGATCCGC	5180
Sbjct	5099	TGCGTAGGGCTCAAGCCCTCCCCCATCGTGGGACAGATGTGGAAGTGTGTTGATCCGC	5158
Query	5181	CTTAACCACCCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAAGAT	5240
Sbjct	5159	CTCAAGCCACCCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAAGAT	5218
Query	5241	GAAGTCACCTTGACGACACCAATACCAAAATACATCATGACATGCAATGCGCCGACCTG	5300
Sbjct	5219	GAATCACCTTGACGACACCCAGTACCAAAATACATCATGACATGCAATGCGCCGACCTG	5278
Query	5301	GAGGTCGTGACGAGCACTGGGTGCTCGTTGGCGGCGTCTTGGCTGCTTGGCCCGGTAT	5360
Sbjct	5279	GAGGTCGTGACGAGCACTGGGTGCTCGTTGGCGGCGTCTTGGCTGCTTGGCCCGGTAT	5338
Query	5361	TGCCGTGCAACAGGCTGCGTGGTTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5420
Sbjct	5339	TGCCGTGCAACAGGCTGCGTGGTTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5398
Query	5421	ATTATACCTGACAGGGAGGTTCCTTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	ATCATACCTGACAGGGAAGTCTCTACCGAG-AGTTCGATGAGATGGAAGAGTGCTCTCA	5457
Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCT	5517
Query	5540	CGGCTCCTGCAAGCCGCGTCCCGCATGCAGAGGTATACACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518	CGGCTCCTGCAAGCCGCGTCCCGTCAGGCAGAGGTATCGCCCTGCTGTCCAGACCAA	5577
Query	5600	CTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTTCACTAGTGGGATACA	5659
Sbjct	5578	CTGGCAAAACTCGAGACCTTCTGGGCGAAGCATATGTGGAATTTTCACTAGTGGGATACA	5637
Query	5660	ATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638	ATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5697

Query	5720	TACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCTCTCTTCAACATATTggg	5779
Sbjct	5698	TACAGCTGCTGTACCAGCCCACTAACCACTAGCCAAACCTCTCTTCAACATATTGGG	5757
Query	5780	ggggTGGGTGGCTGCCAGCTCGCCGCCCGCGTGGCGCTACTGCGCTTTGTGGGTGCTGG	5839
Sbjct	5758	GGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGTGGCGCTACTGCGCTTTGTGGGCGCTGG	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCTCTGTTGACATTTCTTC	5899
Sbjct	5818	CTTAGCTGGCGCCGCCATCGGCAGTGTGGACTGGGGAAGGTCTCATAGACATCTCTGC	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGAGCTCTTGTAGCATTCAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGAGCTCTTGTGGCATTCAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCCCACGGAGGACCTGGTCAATCTGCTGCCGCCATCTCTCGGCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCCCACGGAGGACCTGGTCAATCTACTGCCGCCATCTCTCGCCCGGAGCCCTCTGT	5997
Query	6020	AGTCGGGTGGCTGCGCAGCAATACCTGCGCCGGCAGCTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGGTGGCTGCTGTCAGCAATACCTGCGCCGGCAGCTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGGAACCATGTTTCCCCACCGCA	6139
Sbjct	6058	GCAGTGGATGAACCGGCTGATAGCCTTCGCCCTCCCGGGGGAACCATGTTTCCCCACCGCA	6117
Query	6140	CTACGTGCGCGAGAGCGATGAGCCGCCCGCGCTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCGCGAGAGCGATGAGCAGTGCCTCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCATTCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCACTGATGAATAAGCTCGGAGTGTACCATTCATGCTC	6237
Query	6260	CGGTTCTGGCTAAGGGACATCTGGGACTGGATAATCGAGGTGCTGAGCGCACTTTAAGAC	6319
Sbjct	6238	CGGTTCTGGCTAAGGGACATCTGGGACTGGATAATCGAGGTGTTGAGCGCACTTTAAGAC	6297
Query	6320	CTGGCTGAAGGCCAAGCTCATGCCACAACCTGCTGGGATTCCCTTTGTGTCCTGCCACGG	6379
Sbjct	6298	CTGGCTGAAGGCTAAGCTCATGCCACAGCTGCTGGGATCCCTTTGTGTCCTGCCACGG	6357
Query	6380	CGGATATAGGGGGGTCTGGCGAG-GAGACGGCAATATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	CGGATATAGGGGGGTCTGGCGAGT-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCAGTGGACATGTCAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCAGTGGACATGTCAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCAATTAAACGCCTACACCACGGGCCCTGTACTCCCC	6558
Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCAATTAAAGCCTACACCACGGGCCCTGTACTCCCC	6536
Query	6559	TTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTGAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCTGCGCCGAACATACAGTTTCGCGCTATGGAGGGTGTCTGAGAGGAATATGTGGAGA	6596
Query	6619	TAAGCGGGTGGGGGACTTCCACTACGT-ATCGGGATGACTACTGACAATCTTAATATG	6677
Sbjct	6597	TAAGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAATATG	6655
Query	6678	CGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGTGCGCCTACACAGG	6737
Sbjct	6656	CGTGCCAGGTCCCATCGCCCGAATTTTTCACAGAATTGGACGGGTGCGCCTACATAGG	6715
Query	6738	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6797
Sbjct	6716	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6775
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCAGGCCGAACCCGACGTAGCCGTGTTGACG	6857
Sbjct	6776	GAATACCCGGTAGGGTCGCAATTACCTTGCAGGCCGAACCCGACGTGGCGTGTGACG	6835

Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCGGGGAGAAGTTGGCGAGA	6917
Sbjct	6836	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCGGGGCGAAGTTGGCGAG-	6894
Query	6918	GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCGGTCCATCTCTCAA	6976
Sbjct	6895	GGGATCACCCCTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCGTCCATCTCTCAA	6954
Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955	GGCAACTTGCACCGCTAACCATGACTCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT	7014
Query	7037	GTGGAGGCAGGAGATGGGCGCAACATCACCAGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015	ATGGAGGCAGGAGATGGGCGCAACATCACCAGGTTGAGTCAGAGAACAAAGTGGTGAT	7074
Query	7097	TCGTGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTTCCGTACCTGC	7156
Sbjct	7075	TCGTGACTCCTTCGATCCGCTTGTGGCGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157	AGAAATTCGCGGAAGTCTCGGAGATTGCCCGGGCCCTGCCCGTCTGGGCGCGGCCGA	7216
Sbjct	7135	AGAAATTCGCGGAAGTCTCGGAGATTGCCCGAGGCTGCCCGTCTGGGCGCGGCCGA	7194
Query	7217	CTACAACCCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACGAACCACTGTGGTCCA	7276
Sbjct	7195	CTATAACCCCCGCTAGTGAGAGAGCTGGAAAAAGCCGACTACGAACCACTGTGGTCCA	7254
Query	7277	TGGCTGCCCGCTACCACTCCACGGTCCCTCCTGTGCCCTCCGCCCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TGGCTGTCGCTTCCACTCCAAAGTCCCTCCTGTGCCCTCCGCCCTCGGAAAGCGGAC	7314
Query	7337	GTGGTTCCTACCGAATCAACCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTT	7396
Sbjct	7315	GTGGTTCCTACTGAATCAACCTATCTACTGCCTTGGCCGAGCTGCGACACAGAAGCTT	7374
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCG	7456
Sbjct	7375	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCG	7434
Query	7457	CCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCTATTCTTCCATGCCCCCGTGA	7516
Sbjct	7435	CCCTTCTGGCTGCCCGCGGACTCCGACGCTGAGTCTATTCTCTCCATGCCCGCGCTGA	7494
Query	7517	GGGGGAGCTGGGGATCCGGATCTCAGCGACGGGTCATGTCAGCGGTGAGTAGTGGGC	7576
Sbjct	7495	GGGGGAGCTGGGGATCCGGATCTTAGCGACGGGTCATGTCAGCGGTGAGTAGTGGGC	7554
Query	7577	CGACACGGAAGATGTGCGTGCTGCTCAATGTCTTATTCCTGGACAGGCGCACTCGCTAC	7636
Sbjct	7555	CAACGCGGAGGATGTGCGTGCTGCTCAATGTCTTACTCTTGACAGGCGCACTCGCTAC	7614
Query	7637	CCCGTGCGCTGCGGAAGAACAACAACTGCCATCAACGCACTGAGCAACTCGTTGCTACG	7696
Sbjct	7615	CCCGTGCGCTGCGGAAGAACAACAACTGCCATCAATGCACTAAGCAACTCGTTGCTACG	7674
Query	7697	CCATCACAACTGGTGATTCCACCCTTACGCGAGTGCTTGCCAAAGGCAGAGAAAGT	7756
Sbjct	7675	TCACACAACTGGTGATTCCACCCTTACGCGAGTGCTTGCCAAAGGCAGAGAAAGT	7734
Query	7757	CACATTTCAGAGACTGCAAGTTCTGGACAGCCATTACCAGGAGTGCTCAAGGAGGTCAA	7816
Sbjct	7735	CACATTTCAGAGACTGCAAGTTCTGGACAGCCATTACCAGGAGTACTCAAGGAGGTAA	7794
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7876
Sbjct	7795	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7854
Query	7877	GCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGCGAAAAGAGCTCCGTGGCATGC	7936
Sbjct	7855	GCCCCACATTCAGCCAAATCCAAGTTTGGTTATGGGCGAAAAGAGCTCCGTGGCATGC	7914
Query	7937	CAGAAAGGCGTAGCCCAATCAACTCCGTGTGAAAAGACCTTCTGGAAGACAGTGTAA	7996
Sbjct	7915	CAGAAAGGCGTAGCCCAATCAACTCCGTGTGAAAAGACCTTCTGGAAGACATGTAA	7974

Query	7997	ACCAATAGACACTACCATCATGGCCAAGAAGAGGTTTTCTGCGTTACGCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAAGAGGTTTTCTGCGTTACGCTGAGAAGGG	8034
Query	8057	GGGTGTAAGCAGCTCGTCTCATCGTGTTCGCCGACTGGGCGTGCAGCTGTGGCAGAA	8116
Sbjct	8035	GGGTGTAAGCAGCTCGTCTCATCGTGTTCGCCGATCTGGGCGTGCAGCTGTGGCAAAA	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCTACG	8175
Sbjct	8095	GATGGCTTTGTACGACGTGGTTA-CAAGCTCCCCCTGGCCGTGATGGGAAGCTCTACG	8153
Query	8176	GATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGAAGCGTGAAGTCCAAGA	8235
Sbjct	8154	GATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGAAGCGTGAAGTCCAAGA	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
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Query	8296	ACATCCGTACGAGGAGGCAATTACCAATGTTGTGACCTTGACCCCAAGCCCGGTGG	8355
Sbjct	8274	ACATCCGTACGAGGAGGCAATCTACCAATGTTGTGACCTTGACCCCAAGCCCGGTGG	8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
Sbjct	8334	CCATCAAGTCCCTCACCGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8393
Query	8416	AAAAGTCGGCTACCGCAGGTGCCGCGCAGCGCGCTACTGACAACCTAGCTGTGGTAACA	8475
Sbjct	8394	AAAGTCGGCTATCTCGCAGGTGCCGCGCAGCGCGCTACTGACAACCTAGCTGTGGTAACA	8453
Query	8476	CCCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTGAGCCGCGAGGCTCCAGGACTGCA	8535
Sbjct	8454	CCCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTGAGCCGCGAGGCTCCAGGACTGCA	8513
Query	8536	CCATGCTCGTGTGTGGCGACGACTTAGTCTGTTATCTGTGAAAGTGCGGGGTCCAGGAGG	8595
Sbjct	8514	CCATGCTCGTGTGTGGCGACGACTTAGTCTGTTATCTGTGAAAGTGCGGGGTCCAGGAGG	8573
Query	8596	ACGCGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCG	8655
Sbjct	8574	ACGCGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCG	8633
Query	8656	ACGCGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCG	8715
Sbjct	8634	ACGCGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCG	8693
Query	8716	TCGCCACGACGCGCGTGGAAAGAGGGTCTACTACCTTACCCGCTGACCTACACCCCCC	8775
Sbjct	8694	TCGCCACGACGCGCGTGGAAAGAGGGTCTACTACCTTACCCGCTGACCTACACCCCCC	8753
Query	8776	TCGCAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCAACA	8835
Sbjct	8754	TCGCAGAGCTGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCAACA	8813
Query	8836	TAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCAATTTCTTTAGCG	8895
Sbjct	8814	TAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCAATTTCTTTAGCG	8873
Query	8896	TCCTATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTACGGAGCCTGCT	8955
Sbjct	8874	TCCTATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTACGGAGCCTGCT	8933
Query	8956	ACTCATAGAACCACTGGATCTACCTCCAATCAITCAAAGACTCCATGGCCTCAGCGCAT	9015
Sbjct	8934	ACTCATAGAACCACTGGATCTACCTCCAATCAITCAAAGACTCCATGGCCTCAGCGCAT	8993
Query	9016	TTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGATGCCTCAGAAAAC	9075
Sbjct	8994	TTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGATGCCTCAGAAAAC	9053
Query	9076	TTGGGGTCCC GCCCTTGCAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTC	9135
Sbjct	9054	TTGGGGTACC GCCCTTGCAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTC	9113

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Query   9136  TGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA 9195
      |||
Sbjct   9114  TGGCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA 9173

Query   9196  CAAAGCTCAAAAC 9207
      |||
Sbjct   9174  CAAAGCTCAAAAC 9185

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>gb|I08294.1| Sequence 1 from Patent EP 0388232
Length=9185

Score = 1.482e+04 bits (8027), Expect = 0.0
Identities = 8806/9192 (95%), Gaps = 14/9192 (0%)
Strand=Plus/Plus

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Query   23  CACTCCACCATGAATCACTCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG 82
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Sbjct   1  CACTCCACCATGAATCACTCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG 60

Query   83  CCATGGCGTGTAGTATGAGTGTCTGTCAGCCTCCAGGAGCCCCCTCCCGGAGAGGCATA 142
      |||
Sbjct   61  CCATGGCGTGTAGTATGAGTGTCTGTCAGCCTCCAGGAGCCCCCTCCCGGAGAGGCATA 120

Query   143  GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCTCTTCTTGA 202
      |||
Sbjct   121  GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCTCTTCTTGA 180

Query   203  TAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT 262
      |||
Sbjct   181  TCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT 240

Query   263  GTTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGGGTGCTTGCAGAGTCCCCGGGAG 322
      |||
Sbjct   241  GTTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGGGTGCTTGCAGAGTCCCCGGGAG 300

Query   323  GTCTCGTAGACCGTGCACCATGAGCAGCAATCCTAAACCTCAAAAGAAAAACAAACGTAA 382
      |||
Sbjct   301  GTCTCGTAGACCGTGCACCATGAGCAGCAATCCTAAACCTCAAAAGAAAAACAAACGTAA 360

Query   383  CACCAACCGTCGCCACAGGACGTCAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGT 442
      |||
Sbjct   361  CACCAACCGTCGCCACAGGACGTCAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGT 420

Query   443  TTACTTGTGTGCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA 502
      |||
Sbjct   421  TTACTTGTGTGCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA 480

Query   503  GCGGTCGCAACCTCGAGGTAGACGTACGCTATCCCCAAGGCACGTGCGGCCGAGGGCAG 562
      |||
Sbjct   481  GCGGTCGCAACCTCGAGGTAGACGTACGCTATCCCCAAGGCACGTGCGGCCGAGGGCAG 540

Query   563  GACCTGGGCTCAGCCCGGGTACCCTTGGCCCTCTATGGCAATGAGGGTTGCGGGTGGGC 622
      |||
Sbjct   541  GACCTGGGCTCAGCCCGGGTACCCTTGGCCCTCTATGGCAATGAGGGCTGCGGGTGGGC 600

Query   623  GGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGTGGGGCCCCACAGACCCCGGGC 682
      |||
Sbjct   601  GGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGTGGGGCCCCACAGACCCCGGGC 660

Query   683  TAGGTCGCGCAATTGGGTAAGGTCATCGATACCTCTACGTGCGGCTTCGCCGACCTCAT 742
      |||
Sbjct   661  TAGGTCGCGCAATTGGGTAAGGTCATCGATACCTCTACGTGCGGCTTCGCCGACCTCAT 720

Query   743  GGGGTACATACCGCTCGTCGCGGCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGG 802
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Sbjct   721  GGGGTACATACCGCTCGTCGCGGCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGG 780

Query   803  CGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAGGGAACCTTCTGTTGCTCTTT 862
      |||
Sbjct   781  CGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAGGGAACCTTCTGTTGCTCTTT 840

Query   863  CTCTATCTTCTTCTGCCCCTGCTCTCTTGCTGACTGTGCCGCTTCAGCCTACCAAGT 922
      |||
Sbjct   841  CTCTATCTTCTTCTGCCCCTGCTCTCTTGCTGACTGTGCCGCTTCAGCCTACCAAGT 900

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Query	923	GCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAACTCCACGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCGGATGCCATCTGCACTCCGGGGTGTGTCCTTCGCTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCGGCGGATGCCATCTGCACTCCGGGGTGTGTCCTTCGCTTCGCTGAGGGCAA	1020
Query	1043	CGCCTCGAGGTGTGGGTGGCGGTGACCCCAACGGTGGCCACCAGGACGGCAAACTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTGGGTGGCGGTGACCCCTACGGTGGCCACCAGGATGGCAAACTCCC	1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTGCGGAGCGCCACCCCTCTGCTCGGC	1162
Sbjct	1081	CGCGACGCAGCTTCGACGTCATATCGATCTGCTTGTGCGGAGCGCCACCCCTCTGCTCGGC	1140
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGCTTTCTTGTGTTGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGGGACCTATGCGGGTCTGCTTTCTTGTGCGGCAACTGTTTACCTTCTC	1200
Query	1223	TCCAGGCGCCACTGGACGACGCAAGACTGCAATTTGCTTATCTATCCCGGCATATAAC	1282
Sbjct	1201	TCCAGGCGCCACTGGACGACGCAAGGTTGCAATTTGCTTATCTATCCCGGCATATAAC	1260
Query	1283	GGGTGATCGCATGGCATGGGATATGATGATGAACCTGGTCCCTACGGCAGCGTTGGTGT	1342
Sbjct	1261	GGGTGATCGCATGGCATGGGATATGATGATGAACCTGGTCCCTACGGCAGCGTTGGTAT	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGTGGTGTCTACTGGGG	1402
Sbjct	1321	AGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACATGATCGTGGTGTCTACTGGGG	1380
Query	1403	AGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACGGGCGAAGGTCCTGGTAGT	1462
Sbjct	1381	AGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACGGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTGTGCCGGCGTCGACGCGGAAACCCAGCTACCGGGGGAATGCCGGCGC	1522
Sbjct	1441	GCTGCTGCTATTGTGCCGGCGTCGACGCGGAAACCCAGCTACCGGGGGAATGCCGGCCA	1500
Query	1523	CACCACGGCTGGGCTTGTGTGCTCTCTTACACCAGGCGCCAAGCAGAACATCCAAGTAT	1582
Sbjct	1501	CACTGTGTCTGGATTGTAGCCTCCTCGACACGCGCCAAGCAGAACATCCAAGTAT	1560
Query	1583	CAACACCAACGGCAGTTGGCAGATCAATAGCAGCGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCAGCTCAATAGCAGCGCCTTGAATGCAATGATAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATCAACTCTTCAGGCTGTCTCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAAGTCAACTCTTCAGGCTGTCTCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCCTTACCGATTITGGCCAGGGCTGGGGTCTCTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACCCCTTACCGATTITGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCGCTCGACGAACGCCCTACTGCTGGCACTACCTCCAAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGCGCGACGACGCGCCCTACTGCTGGCACTACCCCCAAAACCTTG	1800
Query	1823	TGGCATTGTGCCCGCAAGAGAGGTGTGTGGTGGCCGGTATATTGCTTCACTCCGACCCCGT	1882
Sbjct	1801	CGGTATTGTGCCCGCAAGAGTGTGTGTGGTCCGGTATATTGCTTCACTCCGACCCCGT	1860
Query	1883	GGTGTGGGAACGACGACGAGGTGCGGCGCGCTACTACAGCTGGGGTGCAAAATGATAC	1942
Sbjct	1861	GGTGTGGGAACGACGACGAGGTGCGGCGCGCCACCTACAGCTGGGGTGAAAAATGATAC	1920
Query	1943	GGATGCTCTTCGCTCTTAAACAACACGAGCCACCGTGGGCAATTGGTTTCGGTTGTACCTG	2002
Sbjct	1921	GGACGCTCTTCGCTCTTAAACAATACGAGCCACCGTGGGCAATTGGTTTCGGTTGTACCTG	1980
Query	2003	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCCTTGTGTCATCGGAGGGGC	2040

Query	2063	GGGCAACAACACCTTGCTCTGCCCACTGATTGCTTCCGAAACATCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACAACACCTTGCTCTGCCCACTGATTGCTTCCGAAACATCCGGAAGCCACATA	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCAAGTGATGGTGCCTACCCGATATAG	2182
Sbjct	2101	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCAAGTGCTGGTGCCTACCCGATATAG	2160
Query	2183	GCTTTGGCACTATCCTTGTAACATCAATTACACCAATATCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCACTATCCTTGTAACATCAACTACACCAATATTTAAAGTCAGGATGTACGTGGG	2220
Query	2243	AGGGGTGCGAGCACAGGCTGGAAGCGGCTGCAACTGGACGCGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTGCGAACACAGGCTGGAAGCTGCTGCAACTGGACGCGGGCGAACGCTGTGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGCCACACACAGTGGCAGGT	2362
Sbjct	2281	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGCTGACCACACACAGTGGCAGGT	2340
Query	2363	CCTTCGGTGTCTTTCACGACCCTGCCAGCCTTGTCCACGCGGCTCATCCACCTCCACCA	2422
Sbjct	2341	CCTTCGGTGTCTTTCACACCCCTACAGCCTTGTCCACGCGGCTCATCCACCTCCACCA	2400
Query	2423	GAACATTGTGGACGTGCGACTTGTACGGGGTAGGGTCAAGCATCGCGTCTCTGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCGACTTGTACGGGGTAGGGTCAAGCATCGCGTCTCTGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTGCTTCTCTCTCTCTGCTTTCGAGACGCGCGCTGCTCCTG	2542
Sbjct	2461	TAAGTGGGAGTACGTGCTTCTCTCTCTCTGCTTTCGAGACGCGCGCTGCTCCTG	2520
Query	2543	CTGTGGATGATGTTACTCATATCCCAAGCGGAGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTGTGGATGATGCTACTCATATCCCAAGCGGAGCGGCTTTGGAGAACCTCGTAATACT	2580
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Sbjct	2581	TAATGCAGCATCCTTGGCCGGGACGACGGTCTTGTATCCTTCTCGTGTCTCTGCTT	2640
Query	2663	TGCGTGGTATGTGAAGGGTAGGTGGGTGCCCGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TGCGTGGTATTTGAAGGGTAGGTGGGTGCCCGAGCGGTCTACACCTCTCTACGGGATGTG	2700
Query	2723	GCCTCTCTCTCTGCTCTCTGCTGGCGTTCGCTCAGCGGGCATACGCACTGGACACGGAGT	2782
Sbjct	2701	GCCTCTCTCTCTGCTCTCTGCTGGCGTTCGCTCAGCGGGCATACGCACTGGACACGGAGT	2760
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Sbjct	2761	GGCCGCGTCTGTGGCGGCGTGTCTTCTGTGCGGTTGATGGCGCTGACTCTGTGACCATTA	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGTCTGTGGTGGCTTCAGTATTTTCTGACCAGAGTGA	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTcccccccTCAACGTCCgggggggCGCGATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGATTcccccccccTCAACGTCCGAGGGGGGCGCGACCGCTCAT	2940
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Sbjct	2941	CTTACTCATGTGTGCT-GTACACCGACTCTGGTATTTGACATACCAAAATGCTGCTGG	2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGGCTTAAAGTCCCTACTTCGTGC	3081
Sbjct	3000	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	CGGTTCGAAGGCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGCTATTAC	3140
Sbjct	3060	CGGTTCGAAGGCTTCTCCGGTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAAATGGTTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178

Query	3201	ACCCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCCTCTTCGGGACTGGGCGCACAAACGGCTGCGAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTGCTCTTCTCCCGAATGGAGACCAAGCTCATCAGTGGGGGGCAGATACCGCCGGTGC	3320
Sbjct	3239	GTGCTCTTCTCCCGAATGGAGACCAAGCTCATCAGTGGGGGGCAGATACCGCCGGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCTGCTCTGCCCCGAGGAGGATAGTCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCCTGCTTCCGCCGAGGGGCGGAGATAGTCTCGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTTGCTGGCGCCCATCACGGCTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGTGGAGGTTGCTGGCGCCCATCACGGCTACGCC	3418
Query	3441	CAGCAGACGAGAGGCTCTCTAGGGTGTATTAATCACCAGCTTACTGGCCGGGACAAAAC	3500
Sbjct	3419	CAGCAGACAGGGGCTCTCTAGGGTGTATTAATCACCAGCTTACTGGCCGGGACAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCTGGCAACGTGC	3560
Sbjct	3479	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTGCCCCAAACCTTCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACACGGGGCCGGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACACGGGGCCGGAACGAGGACCATCGCTCACCC	3598
Query	3621	AAGGGTCTCTGATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCTCTGATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGCTCCTCGGACCTTACCTGGTC	3740
Sbjct	3659	CCGCAAGGTAGCGCTCATTGACACCTGCATCTGCGGCTCCTCGGACCTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTCTATCCCGTGCGCCGGCAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTCTATCCCGTGCGCCGGGAGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCCGGCCCATTTCTTACTTGAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCCCGG	3860
Sbjct	3779	TCGCCCCGGCCCATTTCTTACTTGAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCCCGG	3838
Query	3861	GGACACGCGCTGGGCTTATCAGGGCCGCGGTGTGACCCGTTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGACGCGCTGGGCTATTTAGGGCCGCGGTGTGACCCGTTGGAGTGGCTAAGCGGTG	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTCACGGATAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGTCCCGAGAGCTTCCAGGTGGCCACCTGCATGCTCCACCAGGC	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGTCCCGAGAGCTTCCAGGTGGCTACCTCCATGCTCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAAGTCCCAGGTGCGTACGACGCCAGGGTACAAGGTGTGGTG	4100
Sbjct	4019	AGCGGCAAAAGCACCAAGTCCCAGGTGCGTATGACAGCTCAGGGCTATAAGGTGTAGTA	4078
Query	4101	CTCAACCCCTCTGTGTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTGTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCACTGGCAGGCCCATCAGTAC	4220
Sbjct	4139	ATCGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCACTGGCAGGCCCATCAGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCTTGGCGACGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACCTACGGCAAGTTCTTGGCGACGCGGGTGCTCGGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACCTGTCTT	4340
Sbjct	4259	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACCTGTCTT	4318

Query	4341	GACCAAGCAGAGACTGCGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGCGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGC	4378
Query	4401	TCCGTCACTGTGTCCCATCTTAACATCGAGGAGGTGTCTGTGCCACCACCGGAGAGATC	4460
Sbjct	4379	TCCGTCACTGTGTCCCATCCCAACATCGAGGAGGTGTCTGTGCCACCACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGAAGTGCAGCAGACTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAAGAAGAAGTGCAGCAGACTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4558
Query	4581	GCCGTGGCTACTACCGCGGTCTTGACGTGTCTGTATCCCGACCAAGCGGCATGTTGTC	4640
Sbjct	4559	GCCGTGGCTACTACCGCGGTCTTGACGTGTCCGTATCCCGACCAAGCGGCATGTTGTC	4618
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Sbjct	4619	GTCGTGGCAACCGATGCCCTCATGACCGCTATACCGGCGACTTCGACTCGGTGATAGAC	4678
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCCTTGACCTACCTTTACCAATTGAG	4760
Sbjct	4679	TGCAATACGTGTGTCACTCAGACAGTCGATTTACGCCCTTGACCTACCTTTACCAATTGAG	4738
Query	4761	ACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739	ACAATCAAGCTCCCCAGGATGCTGTCTCCCGCACTCAACGTGGGGGCAGGACTGGCAGG	4798
Query	4821	GGGAAGCCAGGCATCTATAGATTTTGTGGCACCGGGGAGCGCCCTCCGGCATGTTGAC	4880
Sbjct	4799	GGGAAGCCAGGCATCTACAGATTTTGTGGCACCGGGGAGCGCCCTCCGGCATGTTGAC	4858
Query	4881	TCGTCCGTCCCTGTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4940
Sbjct	4859	TCGTCCGTCCCTGTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4918
Query	4941	GAGACTACAGTATAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	GAGACTACAGTATAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	4978
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Sbjct	4979	CATCTTGAATTTTGGGAGGCGTCTTTACAGGCTCACTCATATAGATGCCCACTTTTCTA	5038
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Sbjct	5039	TCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5098
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Sbjct	5099	TGCGTATAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC	5158
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Query	5241	GAAGTCAACCTGACGACACCCCAATACCAAAATACATGACATGCATGTGGCCGACCTG	5300
Sbjct	5219	GAATCAACCTGACGACACCCAGTACCAAAATACATGACATGCATGTGGCCGACCTG	5278
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Sbjct	5399	ATCATACCTGACAGGGAAGTCTTACCAG-AGTTCGATGAGATGGAAGAGTGCTCTCA	5457

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Sbjct	5578	CTGGCAAAAACCTCGAGACCTTCTGGGCGAAGCATATGTGGAATTCATCAGTGGGATACA	5637
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Sbjct	5638	ATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5697
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Sbjct	5698	TACAGCTGCTGTCAACAGCCCACTAACCACTAGCCAAACCTCCTCTTCAACATATTGGG	5757
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Sbjct	5758	GGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCGCTACTGCTTTGTGGGTGCTGG	5817
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Sbjct	5818	CTTAGCTGGCGCCGCCATCGGCAGTGTGGACTGGGGAAGGTCCTCATAGACATCTTGC	5877
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Sbjct	5878	AGGGTATGGCGGGCGTGGCGGAGCTCTTGTGCGATTCAGATCATGAGCGGTGAGGT	5937
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Sbjct	5938	CCCTCCACGGGAGACTGGTCAATCTACTGCCCGCCATCCTCTGCGCGGAGCCCTCGT	5997
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Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCACTGGATAAGCTCGGAGTGACCACTCCATGCTC	6237
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Sbjct	6238	CGGTTCTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	6297
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Sbjct	6537	TTCTTGCGCCGAACATACAGTTCGCGCTATGGAGGGTGTCTGCAGAGGAATAAGTGGAGA	6596

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Query	6678	CCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGACGGGGTGGCGCTACACAGG	6737
Sbjct	6656	CCGTGCCAGGTCCCATCGCCGAATTTTTCACAGAATTGACGGGGTGGCGCTACATAGG	6715
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Sbjct	6716	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6775
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Sbjct	7015	ATGGAGGCAGGAGATGGGCGGCAACATCACCAGGTTGAGTCAGAGAACAAAGTGGTGAT	7074
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Sbjct	7075	CTTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGGAGGATCTCCGTACCCGC	7134
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Sbjct	7195	CTATAACCCCCGCTAGTAGGAGACGTGGAAAAAGCCGACTAGCAACACCTGTGGTCCA	7254
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Sbjct	7435	CCCTTCTGGCTGCCCGCCGACTCCGACGCTGAGTCTATTCTTCCATGCCCGCCCTTGA	7494
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Sbjct	7495	GGGGGAGCTTGGGGATCCGGATCTTAGCGACGGGTGATGGTCAGCGGTGAGTAGTGAGGC	7554
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Sbjct	7795	AGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7854
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Sbjct	7855	GCCCCACACTACGCAAAATCCAAGTTTGGTTATGGGGCAAAAGACGTCCTGTCATGC	7914
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Sbjct	7915	CAGAAAGGCCGTAAACCCACATCAACTCCGTGTGGAAGAGCCTTCTGGAAGACATGAAC	7974
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Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAAGCAGGTTTTCTGCGTTACGCTGAGAAGGG	8034
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Sbjct	8035	GGTTCGTAAAGCAGCTCGTCTCATCGTGTTCCTCCGATCTGGGCGTGCCTGTGCGAGAA	8094
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>gb|AR118723.1|AR118723 Sequence 123 from patent US 6150087
Length=9185

Score = 1.481e+04 bits (8021), Expect = 0.0
Identities = 8804/9192 (95%), Gaps = 14/9192 (0%)
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Query	1403	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACCTGGGCGAAGGTCCTGGTAGT	1462
Sbjct	7805	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACCTGGGCGAAGGTCCTGGTAGT	7746
Query	1463	GCTGCTGCTATTGTGCGGCGTCGACGCGGAAACCCACGTACCGGGGGAAATGCCGGCGC	1522
Sbjct	7745	GCTGCTGCTATTGTGCGGCGTCGACGCGGAAACCCACGTACCGGGGGAAGTGCCTGGCA	7686
Query	1523	CACCACGGCTGGGCTTGTGTGCTCTTACACAGGCGCCAAAGCAGAACATCCAAGTAT	1582
Sbjct	7685	CACCTGTGCTGGATTGTGATGCTCTCTCGACACAGGCGCCAAAGCAGAACCTCAGTAT	7626
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGGCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	7625	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGGCTTGAATGCAATGATAGCTCAA	7566
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATCAACTCTTCAGGCTGTCTGA	1702
Sbjct	7565	CACCGGCTGGTTGGCAGGGCTTTCTATCACCACAAAGTTCAACTCTTCAGGCTGTCTGA	7506
Query	1703	GAGGTTGGCCAGCTGCCGACGCCITACCGATTTTGCCACGGGCTGGGGTCTATCAGTTA	1762
Sbjct	7505	GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA	7446
Query	1763	TGCCAACGGAAGCGGCTTCGACGAACGCCCTACTGCTGGCACTACCTCCAAAGACCTTG	1822
Sbjct	7445	TGCCAACGGAAGCGGCCCCGACCAAGCGCCCTACTGCTGGCACTACCCCCAAAGCTTG	7386

Query	1823	TGGCATTGTGCCCGCAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCAGCCCCGT	1882
Sbjct	7385	CGGTATTGTGCCCGCAAGAGTGTGTGGTCCGTATATTGCTTCACTCCAGCCCCGT	7326
Query	1883	GGTGTGGGAACGACGACAGGTGCGGCGCGCTACCTACAGCTGGGTGCAAAATGATAC	1942
Sbjct	7325	GGTGTGGGAACGACGACAGGTGCGGCGCGCCACCTACAGCTGGGTGAAAAATGATAC	7266
Query	1943	GGATGTCTTCGTCTTAAACAACACGAGGCCACCGTGGGCAATTGGTTTCGGTTGTACCTG	2002
Sbjct	7265	GGACGTCTTCGTCTTAAACAATACGAGGCCACCGTGGGCAATTGGTTTCGGTTGTACCTG	7206
Query	2003	GATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	7205	GATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGC	7146
Query	2063	GGGCAACACACCTTGCTCTGCCCACTGATTGCTTCCGCAACATCCGGAAGCCACATA	2122
Sbjct	7145	GGGCAACACACCTTGCTCTGCCCACTGATTGCTTCCGCAACATCCGGAAGCCACATA	7086
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCAAGTGATGGTGCCTACCCGATATAG	2182
Sbjct	7085	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCAAGTGCTGGTGCCTACCCGATATAG	7026
Query	2183	GCTTTGGCATTATCCTTTGACCATCAATTACACCATATTTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	7025	GCTTTGGCATTATCCTTTGACCATCAACTACACCATATTTAAATACAGGATGTACGTGGG	6966
Query	2243	AGGGGTGCGACACAGGCTGGAAGCGGCCCTGCAACTGGACGCGGGCGAACGCTGTGATCT	2302
Sbjct	6965	AGGGGTGGAACACAGGCTGGAAGCTGCCGCAACTGGACGCGGGCGAACGTTGCGATCT	6906
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCGTTGCTGCTGCCACACAGAGTGGCAGGT	2362
Sbjct	6905	GGAAGACAGGGACAGGTCCGAGCTCACCCTGTTACTGCTGACCACTACACAGTGGCAGGT	6846
Query	2363	CCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCACCGGCCCTATCCACCTCCACCA	2422
Sbjct	6845	CCTCCCGTGTTCCTTCACAACTTACCAGCCTTGTCCACCGGCCCTATCCACCTCCACCA	6786
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTCTGGGCCAT	2482
Sbjct	6785	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTCTGGGCCAT	6726
Query	2483	TAAGTGGGAGTACGTGCTTCTCCTGTTCTTCTGCTTGCAGACGCGCGCTCTGCTCCTG	2542
Sbjct	6725	TAAGTGGGAGTACGTGCTTCTCCTGTTCTTCTGCTTGCAGACGCGCGCTCTGCTCCTG	6666
Query	2543	CTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTGGAGAACCCTCGTAATACT	2602
Sbjct	6665	CTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTGGAGAACCCTCGTAATACT	6606
Query	2603	CAATGCAGCATCCCTGGCCGGGACGACGGTCTTGTGTCCTTCTCTGTTCTTCTGCTT	2662
Sbjct	6605	TAATGCAGCATCCCTGGCCGGGACGACGGTCTTGTATCTCTCTCTGTTCTTCTGCTT	6546
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	6545	TGCAATGGTATTGAAGGGTAAGTGGGTGCCCGAGCGGTCTACACCTTCTACGGGATGTG	6486
Query	2723	GCCTCTCCTCTGCTCTGCTGGCGTTGCTCAGCGGGCATACGCACTGGACACGAGGT	2782
Sbjct	6485	GCCTCTCCTCTGCTCTGTTGGCGTTGCCACAGCGGGCGTACGCGCTGGACACGAGGT	6426
Query	2783	GGCCGCGTCGTGTGGCGGCTTGTCTTGTGCGGTTAATGGCGCTGACTCTGTGCCATA	2842
Sbjct	6425	GGCCGCGTCGTGTGGCGGCTTGTCTTGTGCGGTTGATGGCGCTGACTCTGTGCCATA	6366
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	6365	TTACAAGCGCTATATCAGCTGGTGTGTTGGTGGCTTCAGTATTTTCTGACCAGAGTGA	6306
Query	2903	AGCGCAACTGCAGTGTGGGTTcccccccTCAACGTCCgggggggCGCAGTGCCTGCAT	2962
Sbjct	6305	AGCGCAACTGCAGTGTGGATTCCCCCCTCAACGTCCGAGGGGGGCGCAGCCTGCAT	6246

Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCTGGTATTGACATCACCAAACTACTCTCTGG	3021
Sbjct	6245	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTGACATCACCAAAATGCTGCTGG	6187
Query	3022	CAATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGGCTTAAAGTCCCTACTTCGTGC	3081
Sbjct	6186	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGGCTTAAAGTACCTACTTTTGTGC	6127
Query	3082	CGGTTCACAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATAG-CCGGAGGCTATTAC	3140
Sbjct	6126	CGGTCCAAGGCCCTTCTCCGGTTCTGCGCGTTAGCGCGGAAGAT-GATCGGAGGCCATTAC	6068
Query	3141	GTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	6067	GTGCAAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	6008
Query	3201	ACCCCTCTTCTGAGACTGGGCGCACACGGCTTGCAGATCTGGCCGTGGCTGTGGAAACCA	3260
Sbjct	6007	ACTCTCTTCTGGGACTGGGCGCACACGGCTTGCAGATCTGGCCGTGGCTGTAGAGCCA	5948
Query	3261	GTGCTCTTCTCCGGAATGGAGACCAAGCTCATCAGTGGGGGCGAGATACCGCCGGTGC	3320
Sbjct	5947	GTGCTCTTCTCCCAAAATGGAGACCAAGCTCATCAGTGGGGGCGAGATACCGCCGGTGC	5888
Query	3321	GGTGACATCATCAACGGCTTCCCGCTCTCTGCCGTAGGGGCGCAGGAGATACTGCTTTGGG	3380
Sbjct	5887	GGTGACATCATCAACGGCTTGCTGTTTCCGCCGCGAGGGGCGGAGATACTGCTCTGGG	5828
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTTGCTGGCGCCCATCACGGGTACGCC	3440
Sbjct	5827	CCAGCCGATGGAATGGTCTCCAAGGGTGGAGGTTGCTGGCGCCCATCACGGGTACGCC	5768
Query	3441	CAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	5767	CAGCAGACAAGGGGCCCTCTAGGGTGTATAATCACAGCCTAACTGGCCGGGACAAAAAC	5708
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCTTGGCAACGTGC	3560
Sbjct	5707	CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCAAACCTTCTTGGCAACGTGC	5648
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATACCC	3620
Sbjct	5647	ATCAATGGGGTGTGCTGGAATGTCTACCACGGGGCCGGAACGAGGACCATCGCTCACCC	5588
Query	3621	AAGGGTCTCTGATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGTGGCCCGCT	3680
Sbjct	5587	AAGGGTCTCTGATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGTGGCCCGCT	5528
Query	3681	CCTCAAGGTTCGGCTCATTGACACCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	5527	CCGCAAGGTAGCGCTCATTGACACCTGCACCTTGGCGCTCCTCGGACCTTTACCTGGTC	5468
Query	3741	ACGAGGCACGCCGATGTCAATCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	5467	ACGAGGCACGCCGATGTCAATCCCGTGCGCCGGCGGGTGATAGCAGGGGAGCCTGCTGT	5408
Query	3801	TCGCCCCGGCCCATTTCTACTTGAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCCCGG	3860
Sbjct	5407	TCGCCCCGGCCCATTTCTACTTGAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCCCGG	5348
Query	3861	GGACACGGCTGGGCCATTACAGGGCCGCGGTGTGCACCGTGGAGTGGCTAAAGCGGCT	3920
Sbjct	5347	GGGACGCGCTGGGCATATTTAGGGCCGCGGTGTGCACCGTGGAGTGGCTAAAGCGGCT	5288
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGAGACAACATGAGATCCCGGTGTTACGGACAAC	3980
Sbjct	5287	GACTTTATCCCTGTGGAGAACCTAGAGACAACATGAGGTCCCGGTGTTACGGATAAC	5228
Query	3981	TCCTCTCCACCAGCAGTGCCTCAGAGCTTCCAGGTGGCCACCTGCATGCTCCACCGGC	4040
Sbjct	5227	TCCTCTCCACCAGTAGTGCCCAAGAGCTTCCAGGTGGCTCACTCCATGCTCCACAGGC	5168
Query	4041	AGCGGTAAGAGCACCAAGTCCCGGCTGCGTACGACGCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	5167	AGCGGCAAAAGCACCAAGTCCCGGCTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	5108

Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCATATGGG	4160
Sbjct	5107	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	5048
Query	4161	GTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCACTGGCAGCCCCATCAGGTAC	4220
Sbjct	5047	ATCGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCACTGGCAGCCCCATCAGGTAC	4988
Query	4221	TCCACCTACGGCAAGTTTCCTTGCCGACGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4987	TCCACCTACGGCAAGTTTCCTTGCCGACGCGGGTGCTCGGGGGCGGTTATGACATAATA	4928
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACGTGCTCT	4340
Sbjct	4927	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACGTGCTCT	4868
Query	4341	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4867	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACC GCCACCCCTCCGGGC	4808
Query	4401	TCCGTCACTGTGTCCCATCTTAACATCGAGGAGTTGCTCTGTGCACACCGGAGAGATC	4460
Sbjct	4807	TCCGTCACTGTGTCCCATCTTAACATCGAGGAGTTGCTCTGTGCACACCGGAGAGATC	4748
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4747	CCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAGACATCTCATCTTC	4688
Query	4521	TGCCACTCAAAGAAGAAGTGGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4580
Sbjct	4687	TGTCATTCAAAGAAGAAGTGGACGGAATCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4628
Query	4581	GCCGTGGCTACTACCGCGGTCTTGACGTGCTGTGTCATCCCGACAGCGGCGATGTTGTC	4640
Sbjct	4627	GCCGTGGCTACTACCGCGGTCTTGACGTGCTGTCATCCCGACAGCGGCGATGTTGTC	4568
Query	4641	GTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4567	GTCGTGGACACCGATGCCCTCATGACCGCTATACCGGCGACTTCGACTCGGTGATAGAC	4508
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTACAGCCTTGACCTACCTTTACCAATTGAG	4760
Sbjct	4507	TGCAATACGTGTGTCACTCAGACAGTCGATTTACAGCCTTGACCTACCTTTACCAATTGAG	4448
Query	4761	ACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAAGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4447	ACAATCACGCTCCCCAGGATGCTGTCTCCCGCACTCAAGCTCGGGCAGGACTGGCAGG	4388
Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGACCGGGGGAGCGCCCTCCGGCATGTTTCGAC	4880
Sbjct	4387	GGGAAGCCAGGCATCTACAGATTTGTGGACCGGGGGAGCGCCCTCCGGCATGTTTCGAC	4328
Query	4881	TCGTCGGCTCCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4940
Sbjct	4327	TCGTCGGCTCCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4268
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4267	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	4208
Query	5001	CATCTTGAAATTTTGGGAGGGCGTCTTTACGGGCTCACTCATATAGATGCCACTTTTCTA	5060
Sbjct	4207	CATCTTGAAATTTTGGGAGGGCGTCTTTACGGGCTCACTCATATAGATGCCACTTTTCTA	4148
Query	5061	TCCAGACAAAGCAGAGTGGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	4147	TCCAGACAAAGCAGAGTGGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	4088
Query	5121	TGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACAGATGTGGAAGTGTTTATGCCG	5180
Sbjct	4087	TGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACAGATGTGGAAGTGTTTATGCCG	4028
Query	5181	CTTAACACCCACCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAAGT	5240
Sbjct	4027	CTCAAGCCACCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAAGT	3968

Query	5241	GAAGTCAACCCTGACGACACCAATACACAAATACATCATGACATGCATGTCGGCCGACCTG	5300
Sbjct	3967	GAAATCAACCCTGACGACACCAATACACAAATACATCATGACATGCATGTCGGCCGACCTG	3908
Query	5301	GAGGTCGTGACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTCTGGCCGCGTAT	5360
Sbjct	3907	GAGGTCGTGACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTCTGGCCGCGTAT	3848
Query	5361	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTTCGCGGGAAGCCGGCA	5420
Sbjct	3847	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTTCGCGGGAAGCCGGCA	3788
Query	5421	ATTATACCTGACAGGGAGGTTCCTACACAG-GAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	3787	ATCATACCTGACAGGGAAGTCTCTACAC-GAGAGTTCGATGAGATGGAAGAGTGCTCTCA	3729
Query	5480	GCACCTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	3728	GCACCTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCT	3669
Query	5540	CGGCTCCTGACAGACCGCTCCCGCCATGACAGAGGTATACACCCCTGCTGTGCAGACCAA	5599
Sbjct	3668	CGGCTCCTGACAGACCGCTCCCGTCAGGCAGAGGTATACGCCCTGCTGTGCAGACCAA	3609
Query	5600	CTGGCAGAAACTCGAGGCTCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACA	5659
Sbjct	3608	CTGGCAAAAACCTCGAGACCTTCTGGGCGAAGCATATGTGGAACCTTCATCAGTGGGATACA	3549
Query	5660	ATACCTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	3548	ATACCTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	3489
Query	5720	TACAGCTGCGCGTACCAGCCCACTAACCACTGGCCAAACCTCCTCTTCAACATATTggg	5779
Sbjct	3488	TACAGCTGCTGTACCAGCCCACTAACCACTAGCCAAACCTCCTCTTCAACATATTGGG	3429
Query	5780	ggggTGGGTGGCTGCCAGCTCGCCGCCCGCGTGCCTACTGCGCTTTTGGGTGCTGG	5839
Sbjct	3428	GGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGTGCCTACTGCGCTTTTGGGCGCTGG	3369
Query	5840	CCTAGCTGGCGCCGCATCGGCAGCGTTGGACTGGGGAAGTCTCGTGGACATCTTTCG	5899
Sbjct	3368	CTTAGCTGGCGCCGCATCGGCAGTGTGGACTGGGGAAGTCTCATAGACATCTTTCG	3309
Query	5900	AGGGTATGGCGCGGCGTGGCGGGAGCTCTTTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	3308	AGGGTATGGCGCGGCGTGGCGGGAGCTCTTTGTGCATTCAAGATCATGAGCGGTGAGGT	3249
Query	5960	CCCTTCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	3248	CCCTTCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGT	3189
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	3188	AGTCGGCGTGGTCTGTGACGAATACTGCGCCGGCAGCTTGGCCCGGGCGAGGGGGCAGT	3129
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGGAACCATGTTTCCCCACGCA	6139
Sbjct	3128	GCAGTGGATGAACCGGCTGATAGCCTTCGCCCTCCCGGGGGAACCATGTTTCCCCACGCA	3069
Query	6140	CTACGTGCCGGAGAGCGATGACAGCCCGCGCTCACTGCCATCTACGACGCTCACTGT	6199
Sbjct	3068	CTACGTGCCGGAGAGCGATGACAGTGCCTGCGCTCACTGCCATCTACGACGCTCACTGT	3009
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGGTGACCACTCCATGCTC	6259
Sbjct	3008	AACCCAGCTCCTGAGGCGACTGCACCAAGTGGATAAGCTCGGAGGTGACCACTCCATGCTC	2949
Query	6260	CGGTTCTTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	2948	CGGTTCTTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	2889
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACCTGCGCTGGGATTCCTTTGTGCTCTGCCAGCG	6379
Sbjct	2888	CTGGCTFAAAGCTAAGCTCATGCCACAGCTGCTGGGATCCCTTTGTGCTCTGCCAGCG	2829

Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	2828	CGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	2770
Query	6439	CTGAGATCACTGGACATGTCAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCA	6498
Sbjct	2769	CTGAGATCACTGGACATGTCAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCA	2710
Query	6499	GGAACATGTGGAGTGGGACGTTCCCAATTAAACGCCTACACCACGGGCCCTGTACTCCCC	6558
Sbjct	2709	GGAACATGTGGAGTGGGACCTTCCCAATTAAATGCCATACACCACGGGCCCTGTACTCCCC	2650
Query	6559	TTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	2649	TTCTGCGCCGAACATACACGTTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	2590
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	2589	TAAGGCGAGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	2531
Query	6678	CCGTGCCAGATCCCATCGCCGAATTTTTCACAGAAATGGACGGGTGCGCCTACACAGG	6737
Sbjct	2530	CCGTGCCAGGTCCCATCGCCGAATTTTTCACAGAAATGGACGGGTGCGCCTACATAGG	2471
Query	6738	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6797
Sbjct	2470	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	2411
Query	6798	GAGTACCCGGTGGGTGCGCAATTACCTTGCGAGCCCGAACCAGGAGTACGCGTGTGAGC	6857
Sbjct	2410	GAGTACCCGGTAGGGTGCCAATTACCTTGCGAGCCCGAACCAGGAGTACGCGTGTGAGC	2351
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCGGAGAGGTTGGCGAGA	6917
Sbjct	2350	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCGGCGAGGTTGGCGAG-	2292
Query	6918	GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976
Sbjct	2291	GGGATCACCCCTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCGCTCCATCTCTCAA	2232
Query	6977	GGCAACTTGCACCCGCAACCATGACTCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	2231	GGCAACTTGCACCGCTAACCATGACTCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT	2172
Query	7037	GTGGAGGCAGGAGATGGGCGGCAACATCACCAGGTTGAGTTCAGAGAACAAAGTGGTGAT	7096
Sbjct	2171	ATGGAGGCAGGAGATGGGCGGCAACATCACCAGGTTGAGTTCAGAAAACAAAGTGGTGAT	2112
Query	7097	TCGTGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	2111	TCGTGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	2052
Query	7157	AGAAATCTTCGCGAAGTCTCGGAGATTCCGCCGGGCCCTGCCCGTCTGGGCGCGGCCGA	7216
Sbjct	2051	AGAAATCTTCGCGAAGTCTCGGAGATTCCGCCAGGCCCTGCCCGTCTGGGCGCGGCCGA	1992
Query	7217	CTACAACCCCCGCTAGTAGAGAGCTGGAAAAAGCCTGACTACGAACACCTGTGGTGCA	7276
Sbjct	1991	CTATAACCCCCGCTAGTAGAGAGCTGGAAAAAGCCGACTACGAACACCTGTGGTGCA	1932
Query	7277	TGGTGCCCGCTACCACTCCACGCTCCCTCCTGTGCTTCCGCTCGGAAAAAGCGTAC	7336
Sbjct	1931	TGGCTGTCCGCTTCCACCTCCAAAGTCCCTCCTGTGCTTCCGCTCGGAAAGAGCGGAC	1872
Query	7337	GGTGTCTCTACCGAATCAACCCTATCTACTGCCTTGGCGAGCTTGCCACCAAAAGTTT	7396
Sbjct	1871	GGTGTCTCTACTGAATCAACCCTATCTACTGCCTTGGCGAGCTTGCCACCAAGAGCTT	1812
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCG	7456
Sbjct	1811	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCG	1752
Query	7457	CCCTTCTGGGCTGACCGGAGCTCCGACGTTGAGTCTATTCTTCCATGACCGGCTGGA	7516
Sbjct	1751	CCCTTCTGGGCTGCCCCCGGACTCCGACGCTGAGTCTATTCTCTCATGCCCCCTGGA	1692

Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGGTCAGTAGTGGGGC	7576
Sbjct	1691	GGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCATGGTCAACGGTCAGTAGTGAGGC	1632
Query	7577	CGACACGGAAGATGTGCTGTGCTGCTCAATGTCTTATTCCTGGACAGCGCAGCTCGTCAC	7636
Sbjct	1631	CAACGCGGAGGATGTGCTGTGCTGCTCAATGTCTTACTCTTGGACAGCGCAGCTCGTCAC	1572
Query	7637	CCCGTGCCTGCGGAAGAACAACAACTGCCATCAACGCACTGAGCAACTCGTTGCTACG	7696
Sbjct	1571	CCCGTGCCTGCGGAAGAACAAGAACTGCCATCAATGCACTAAGCAACTCGTTGCTACG	1512
Query	7697	CCATCACAATCTGGTGATTCCACCACCTTCACGCACTGCTTGCCTAAGGCAGAGAAAGT	7756
Sbjct	1511	TCACCACAATTTGGTGATTCCACCACCTTCACGCACTGCTTGCCTAAGGCAGAGAAAGT	1452
Query	7757	CACATTGACAGACTGCAAGTTCTGGACAGCCATTACAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	1451	CACATTGACAGACTGCAAGTTCTGGACAGCCATTACAGGACGTACTCAAGGAGGTTAA	1392
Query	7817	AGCAGCGCGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTGACAGCCTGAC	7876
Sbjct	1391	AGCAGCGCGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTGACAGCCTGAC	1332
Query	7877	GCCCCACATTACGACCAATCCAAGTTTGGCTATGGGCGAAAAGACGTCCTGTTGCCATGC	7936
Sbjct	1331	GCCCCACACTACGACCAATCCAAGTTTGGTTATGGGCGAAAAGACGTCCTGTTGCCATGC	1272
Query	7937	CAGAAAGGCGGTAGCCCAACATCACTCCGTGTGGAAGACCTTCTGGAAGACAGTGTAAC	7996
Sbjct	1271	CAGAAAGGCGGTAAACCACATCACTCCGTGTGGAAGAGCTTCTGGAAGACAGTGTAAC	1212
Query	7997	ACCAATAGACACTACCATCATGGCCAAAGAACGAGGTTTCTGCGTTACGCTGAGAAGGG	8056
Sbjct	1211	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTCTGCGTTACGCTGAGAAGGG	1152
Query	8057	GGTTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCGTGCCTGTGCGAGAA	8116
Sbjct	1151	GGTTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCGTGCCTGTGCGAGAA	1092
Query	8117	GATGGCCCTGTACGACGTGGTTAGC-AAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	1091	GATGGCTTGTACGACGTGGTTA-CAAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	1033
Query	8176	GATTCCAATACTACAGGACAGCGGGTTGAATTCCCTGTCGCAAGCGTGAAGTCCAAGA	8235
Sbjct	1032	GATTCCAATACTACAGGACAGCGGGTTGAATTCCCTGTCGCAAGCGTGAAGTCCAAGA	973
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCGCTGTTTGTACTCCACAGTCACTGAGAGCG	8295
Sbjct	972	AAACCCCAATGGGGTTCTCGTATGATACCGCTGCTTGTACTCCACAGTCACTGAGAGCG	913
Query	8296	ACATCCGTACGAGGAGGCAATTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGG	8355
Sbjct	912	ACATCCGTACGAGGAGGCAATCTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGG	853
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
Sbjct	852	CCATCAAGTCCCTCACCAGAGGCTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	793
Query	8416	AAAACTGCGGCTACCGCAGGTGCCGCGCAGCGGCTACTGACAACACTAGCTGTGGTAACA	8475
Sbjct	792	AGAACTGCGGCTATCGCAGGTGCCGCGCAGCGGCTACTGACAACACTAGCTGTGGTAACA	733
Query	8476	CCCTCACTTGCTACATCAAGGCCCGGCGAGCCTGTCGAGCCGAGGGCTCCAGGACTGCA	8535
Sbjct	732	CCCTCACTTGCTACATCAAGGCCCGGCGAGCCTGTCGAGCCGAGGGCTCCAGGACTGCA	673
Query	8536	CCATGCTCGTGTGTGCGCAGCATTAGTCGTTATCTGTGAAAGTCGCGGGGTCAGGAGG	8595
Sbjct	672	CCATGCTCGTGTGTGCGCAGCATTAGTCGTTATCTGTGAAAGTCGCGGGGTCAGGAGG	613
Query	8596	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAAGTACTCCG	8655
Sbjct	612	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAAGTACTCCG	553

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Query 8656      acccccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGCAG 8715
Sbjct 552      ACCCCCCACAACCAGAATACGACTTGGAGCTCATAACATCATGCTCCTCCAACGTGCAG 493
Query 8716      TCGCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCTACAAACCCCC 8775
Sbjct 492      TCGCCACGACGCGCTGGAAAGAGGGTCTACTACCTACCCGTGACCTACAAACCCCC 433
Query 8776      TCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTTGGCTAGGCAACA 8835
Sbjct 432      TCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTTGGCTAGGCAACA 373
Query 8836      TAATCATGTTTGCCCCACACTGTGGCGGAGGATGATACTGATGACCCATTTCCTTAGCG 8895
Sbjct 372      TAATCATGTTTGCCCCACACTGTGGCGGAGGATGATACTGATGACCCATTTCCTTAGCG 313
Query 8896      TCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTACGGAGCCTGCT 8955
Sbjct 312      TCCTTATAGCCAGGGACCACTTGAACAGGCTCTGATTGCGAGATCTACGGGCGCTGCT 253
Query 8956      ACTCCATAGAACCACTTGAATCTACCTCCAATCAITCAAAGACTCCATGGCCTCAGCGCAT 9015
Sbjct 252      ACTCCATAGAACCACTTGAATCTACCTCCAATCAITCAAAGACTCCATGGCCTCAGCGCAT 193
Query 9016      TTCTACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAAC 9075
Sbjct 192      TTCTACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCCGCATGCCTCAGAAAAC 133
Query 9076      TTGGGGTCCC GCCCTTGGCGAGCTTGGAGACACCGGGGCCCGGAGCGTCCGCGCTAGGCTTC 9135
Sbjct 132      TTGGGGTACCGCCCTTGGCGAGCTTGGAGACACCGGGGCCCGGAGCGTCCGCGCTAGGCTTC 73
Query 9136      GTGCCAGAGGAGGCGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCGAGTAAGAA 9195
Sbjct 72      TGCCAGAGGAGGCGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCGAGTAAGAA 13
Query 9196      CAAAGCTCAAAC 9207
Sbjct 12      CAAAGCTCAAAC 1

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>gb|AR118722.1|AR118722 Sequence 122 from patent US 6150087
Length=9185

Score = 1.481e+04 bits (8021), Expect = 0.0
Identities = 8804/9192 (95%), Gaps = 14/9192 (0%)
Strand=Plus/Plus

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Query 23      CACTCCACCAATGATCACTCCCTGTGAGGAAGTACTGTCTTACGCGAGAAAGCGCTAG 82
Sbjct 1       CACTCCACCAATGATCACTCCCTGTGAGGAAGTACTGTCTTACGCGAGAAAGCGCTAG 60
Query 83      CCATGGCGTTAGTATGAGTGTGTCGTCAGCCTCCAGGAGcccccccTCCGGGAGAGCCATA 142
Sbjct 61      CCATGGCGTTAGTATGAGTGTGTCGTCAGCCTCCAGGAGCCCCCTCCGGGAGAGCCATA 120
Query 143     GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCTCTTCTTGA 202
Sbjct 121     GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCTCTTCTTGA 180
Query 203     TAAACCCGCTCAATGCTGGAGATTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT 262
Sbjct 181     TCAACCCGCTCAATGCTGGAGATTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT 240
Query 263     GTTGGGTGCGGAAAGGCCTTGTGTTACTGCCTGATAGGGTGCTTGCAGTGCCTGGGAG 322
Sbjct 241     GTTGGGTGCGGAAAGGCCTTGTGTTACTGCCTGATAGGGTGCTTGCAGTGCCTGGGAG 300
Query 323     GTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAACCTCAAAGAAAAACCAACGTAA 382
Sbjct 301     GTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAACCTCAAAGAAAAACCAACGTAA 360
Query 383     CACCAACCGTCGCCCACAGGACGTCAGTTCCCGGGTGGCGGTGAGATCGTTGGTGGAGT 442
Sbjct 361     CACCAACCGTCGCCCACAGGACGTCAGTTCCCGGGTGGCGGTGAGATCGTTGGTGGAGT 420

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Query	443	TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCAGCAGGAAGACTTCCGA	502
Sbjct	421	TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCAGCAGGAAGACTTCCGA	480
Query	503	GCGGTGCGCAACCTCGAGGTAGACGTACGCTATCCCCAAGGCACGTGCGGCCGAGGGCGAG	562
Sbjct	481	GCGGTGCGCAACCTCGAGGTAGACGTACGCTATCCCCAAGGCCTGTGCGGCCGAGGGCGAG	540
Query	563	GACCTGGGCTCAGCCCGGTACCCTTGGCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541	GACCTGGGCTCAGCCCGGTACCCTTGGCCCTCTATGGCAATGAGGGCTGCGGGTGGGC	600
Query	623	GGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGTGGGGCCCCACAGACCCCGGCG	682
Sbjct	601	GGGATGGCTCCTGTCTCCCGTGGCTCTCGGCCCTAGTGGGGCCCCACAGACCCCGGCG	660
Query	683	TAGGTGCGCAATTGGGTAAGGTCATCGATACCCCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661	TAGGTGCGCAATTGGGTAAGGTCATCGATACCCCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCCGCTCGTCGCGCCCTCTTGGAGGCGCTGCCAGGGCCCTGCGCGATGG	802
Sbjct	721	GGGGTACATACCCGCTCGTCGCGCCCTCTTGGAGGCGCTGCCAGGGCCCTGCGCGATGG	780
Query	803	CGTCCGGGTTCGGAAGACGCGTGAACATATGCAACAGGGAACTTCCTGGTTGCTCTTT	862
Sbjct	781	CGTCCGGGTTCGGAAGACGCGTGAACATATGCAACAGGGAACTTCCTGGTTGCTCTTT	840
Query	863	CTCTATCTTCTTCTGGCCCTGCTCTCTTGCCTGACTGTGCCCGCTTCAGCTACCAAGT	922
Sbjct	841	CTCTATCTTCTTCTGGCCCTGCTCTCTTGCCTGACTGTGCCCGCTTCAGCTACCAAGT	900
Query	923	GCGCAATTCTCTGGGGCTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAATTCACGGGGCTTACCACGTACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCGGATGCCATCCTGCACACTCCGGGGTGTGTCCTTCGCTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCGGCGGATGCCATCCTGCACACTCCGGGGTGTGTCCTTCGCTTCGCGAGGGCAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGATGGCAAACTCCC	1080
Query	1103	CACAACGACGCTTCGACGTCATATCGATCTGCTTGTGCGGAGCGCCACCCCTCTGCTCGGC	1162
Sbjct	1081	CAGCAGCAGCTTCGACGTCATATCGATCTGCTTGTGCGGAGCGCCACCCCTCTGCTCGGC	1140
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGCTTCTTGTGTTGTTCACTGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGGGACCTATGCGGGTCTGCTTCTTGTGCGGCAACTGTTCACTTCTC	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGGCCATATAAC	1282
Sbjct	1201	TCCCAGGCGCCACTGGACGACGCAAGGTGCAATTGCTCTATCTATCCCGGCCATATAAC	1260
Query	1283	GGGTATCGCATGGCATGGGATATGATGATGAACCTGGTCCCCACGGCAGCGTTGGTGGT	1342
Sbjct	1261	GGGTATCGCATGGCATGGGATATGATGATGAACCTGGTCCCCACGGCAGCGTTGGTAAAT	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACATGATCGCTGGTGTCTACTGGGG	1402
Sbjct	1321	GGCTCAGCTGCTCCGGATCCCAAGCCATCTTGGACATGATCGCTGGTGTCTACTGGGG	1380
Query	1403	AGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACCTGGGCGAAGGTCTTGGTAGT	1462
Sbjct	1381	AGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACCTGGGCGAAGGTCTTGGTAGT	1440
Query	1463	GCTGCTGCTATTGTGCGCGCTCGACGCGGAAACCCACGTACCGGGGGAATGCGCGGCG	1522
Sbjct	1441	GCTGCTGCTATTGTGCGCGCTCGACGCGGAAACCCACGTACCGGGGGAAGTGC CGGCCA	1500
Query	1523	CACCACGGCTGGGCTTGTGGTCTCCTTACACAGGCGCCAAGCAGAACATCCAAGTAT	1582
Sbjct	1501	CACGTGTCTGGATTGTGATGCTCTCTCGACACGGCGCCAAGCAGAACGTCAAGCTGAT	1560

Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCAGCGCCTTGAATTGCAATGAAGCCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCTCAATAGCAGCGCCTGAACTGCAATGATAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAATCAACTCTTCAGGCTGTCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAAGTCAACTCTTCAGGCTGTCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCCTTACCGATTTTGCCACGGGCTGGGGTCTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCCCTCGACGAACGCCCTACTGCTGGCACTACCCCTCAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGCCCGGACGAGCGCCCTACTGCTGGCACTACCCCCCAAAACCTTG	1800
Query	1823	TGCGATTGTGCCCGCAAGAGCGTGTGTGGCCGGTATATTGCTTCACCTCCAGCCCCGT	1882
Sbjct	1801	CGGTATTGTGCCCGCAAGAGTGTGTGTGGTCCGGTATATTGCTTCACCTCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACCGACAGGTGCGGCGCGCCTACCTACAGCTGGGGTGCAAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACCGACAGGTGCGGCGCGCCACCTACAGCTGGGGTGAAAAATGATAC	1920
Query	1943	GGATGTCTTCGTCTTAAACAACACACAGGCCACCGCTGGGCAATTGGTTCCGGTTGTACCTG	2002
Sbjct	1921	GGACGTCTTCGTCTTAAACAATACACAGGCCACCGCTGGGCAATTGGTTCCGGTTGTACCTG	1980
Query	2003	GATGAATCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTTGTCATCGGAGGGGT	2062
Sbjct	1981	GATGAATCAACTGGATTACCAAAGTGTGCGGAGCGCCCTCTTGTTGTCATCGGAGGGGC	2040
Query	2063	GGGCAACAACACCTTGCTCTGCCCACTGATTGCTTCGCAAAACATCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACAACACCTTGCACTGCCCACTGATTGCTTCGCAAGCATCCGGAAGCCACATA	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTGCAGTACCCGTATAG	2182
Sbjct	2101	CTCTCGGTGCGGCTCCGGTCCCTGGATACACCCAGGTGCTGGTGCAGTACCCGTATAG	2160
Query	2183	GCTTTGGCACTATCCTTTGACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCATTATCCTTTGACCATCAACTACACCATATTTAAAGTCAGGATGTACGTGGG	2220
Query	2243	AGGGGTCGAGCAGAGCTGGAAGCGGCCCTGCAACTGGACGCGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTCGAACACAGGCTGGAAGCTGCCCTGCAACTGGACGCGGGCGAACGCTGTGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbjct	2281	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGCTGACCACATACACAGTGGCAGGT	2340
Query	2363	CCTTCCGTGTCTTTACGACCCCTGCCAGCCTTGTCACCGGCCCTATCCACCTCCACCA	2422
Sbjct	2341	CCTCCCGTGTCTCTTACAAACCTTACAGCCTTGTCACCGGCCCTATCCACCTCCACCA	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTCTGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTCTGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTGCTTCTCTGTTCTCTGCTTGCAGACGCGCGCTGTGCTCCTG	2542
Sbjct	2461	TAAGTGGGAGTACGTGCTTCTCTGTTCTCTGCTTGCAGACGCGCGCTGTGCTCCTG	2520
Query	2543	CTTGTTGATGATGTTACTCATATCCCAAGCGGAGCGGCTTTGGAGAACCCTCGTAATACT	2602
Sbjct	2521	CTTGTTGATGATGCTACTCATATCCCAAGCGGAGCGGCTTTGGAGAACCCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGACGGTCTTGTGCTCTTCTCGTGTCTTCTGCTT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGACGGTCTTGTATCTCTCTGTTCTTCTGCTT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TGCAATGGTATTGAAGGGTAGGTGGGTGCCCGAGCGGTCTACACCTTCTACGGGATGTG	2700

Query	2723	GCCTCTCCTCCTGCTCCTGCTGCGGTGCTCAGCGGGCATACGCACTGGACACGGAGGT	2782
Sbjct	2701	GCCTCTCCTCCTGCTCCTGTTGGCGTTGCCACAGCGGGCTACGCGCTGGACACGGAGGT	2760
Query	2783	GGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAATGGCGCTGACTCTGTGCCATA	2842
Sbjct	2761	GGCCGCGTCGTGTGGCGGCGTTGTTCTCCTGCGGTTGATGGCGCTGACTCTGTACCATA	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTCCTGACCAGAGTAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCCTTGTGGTGGCTTCAGTATTTCCTGACCAGAGTGA	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTccccccTCAACGTCGggggggCGCGATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCCCCTCAACGTCGAGGGGGGCGCGACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCGACCTGGTATTGTGACATCACCAAATCTCTCTGG	3021
Sbjct	2941	CTTACTCATGTGTGCT-GTACACCGACTCTGGTATTGTGACATCACCAAATGCTGCTGG	2999
Query	3022	CAATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCTACTTCGTGC	3081
Sbjct	3000	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	CGGTTCACAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGCTATTAC	3140
Sbjct	3060	CGGTTCACAGGCCCTTCTCCGGTTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3178
Query	3201	ACCCCTCTTCGAGACTGGGCGCAACCGGCTGCGGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCTCTCTCGGACTGGGCGCAACCGCTTGCAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGCGAGATACGCCCGGTGC	3320
Sbjct	3239	GTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGCGAGATACGCCCGGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCTGCTCTGCCCCGAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCCTGTTCCGCCGAGGGGCCAGGAGATACTGCTCGGG	3358
Query	3381	CCAGCGCAGCGGAATGCTCTCAAGGGGTGGAGGTTGCTGGCGCCATCACGGCGTACGCC	3440
Sbjct	3359	CCAGCGGATGGAATGCTCTCAAGGGGTGGAGGTTGCTGGCGCCATCACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCCTCTAGGGTGATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACGAGGGGCCCTCTAGGGTGATAATCACCAGCCTAATGAGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCTTGGCAACGTGC	3560
Sbjct	3479	CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCAAACCTTCTTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3598
Query	3621	AAGGGTCCCTGTACATCCAGATGTATACCAATGGGACCAAGACCTTGTGGGCTGGCCCGT	3680
Sbjct	3599	AAGGGTCCCTGTATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGT	3658
Query	3681	CCTCAAGGTTCCGCGTCATTGACACCCGTGACTGCGGCTCCTCGGACCTTACCTGGTC	3740
Sbjct	3659	CCGCAAGGTAGCGCTCATTGACACCCGTGACTGCGGCTCCTCGGACCTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTCAATCCCGTGCGCCGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTCAATCCCGTGCGCCGCGGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCCGGCCCATTTTCTACTTGAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCGCG	3860
Sbjct	3779	TCGCCCCGGCCCATTTTCTACTTGAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCGCG	3838

Query	3861	GGACACGCGCTGGGCCATTTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGCACGCGCTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGAGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTCACGGATAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGTCCCCAGAGCTTCCAGGTGGCCACCTGCATGTCTCCACCCTG	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGTCCCCAGAGCTTCCAGGTGGCTCACTCCATGTCTCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCCTGCGTACGCAGCCAGGGCTACAAGGTGTGGTG	4100
Sbjct	4019	AGCGGCAAAAGCACCAAGGTCCCCTGCGTATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTGTGCTGCAACGCTGGGCTTTGGTGTTCATATGCCAAGGCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTGTGCTGCAACGCTGGGCTTTGGTGTTCATATGCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGTGAGAACAAATTACCACTGGCAGCCCCATACGTTAC	4220
Sbjct	4139	ATCGATCCTAATATCAGGACCGGGTGAGAACAAATTACCACTGGCAGCCCCATACGTTAC	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACCTACGGCAAGTTCCTTGGCCGACGGCGGGTGCTCGGGGGGCGGTTATGACATAATA	4258
Query	4281	ATTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCTCT	4340
Sbjct	4259	ATTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCTCT	4318
Query	4341	GACCAGCAGAGACTGCGGGGGCGAGACTGGTGTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAGCAGAGACTGCGGGGGCGAGACTGGTGTGTGCTCGCCACCGCACCCCTCCGGGC	4378
Query	4401	TCCGTCACGTGTGCCCATCTTAACATCGAGGAGGTGTCTGTGCCACACCGGAGAGATC	4460
Sbjct	4379	TCCGTCACGTGTGCCCATCTTAACATCGAGGAGGTGTCTGTGCCACACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGAAGTGCAGCAGGCTCGCCGCGAAGCTGTGTCGATTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAAGAAGAAGTGCAGCAGGCTCGCCGCGAAGCTGTGTCGATTGGGCATCAAT	4558
Query	4581	GCCGTGGGCTACTACCGCGGTCTTGACGTGTCTGTATCCGACAGCGGCGATGTTGTG	4640
Sbjct	4559	GCCGTGGGCTACTACCGCGGTCTTGACGTGTCTGTATCCGACAGCGGCGATGTTGTG	4618
Query	4641	GTCGTGTGACCGGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4619	GTCGTGGGACCGGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4678
Query	4701	TGCAACACGTTGTGCTACTCAGACAGTCGATTTACGCTTACCCCTACCTTTACCAATTGAG	4760
Sbjct	4679	TGCAATACGTTGTGCTACTCAGACAGTCGATTTACGCTTACCCCTACCTTTACCAATTGAG	4738
Query	4761	ACAACCACTGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCGGGGAGAGCTGGCAGG	4820
Sbjct	4739	ACAATCACTGCTCCCCAGGATGCTGTCTCCGCACTCAACGTCGGGAGAGCTGGCAGG	4798
Query	4821	GGGAAGCCAGGCACTATAGATTTGTGGCACCGGGGGAGCGCCCTCCGGCATGTTTCGAC	4880
Sbjct	4799	GGGAAGCCAGGCACTATACAGATTTGTGGCACCGGGGGAGCGCCCTCCGGCATGTTTCGAC	4858
Query	4881	TCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4940
Sbjct	4859	TCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	GAGACTACAGTTAGGCTACGAGCTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	4978

Query	5001	CATCTTGAATTTTGGGAGGCGTCTTTACGGGCTCACTCATATAGATGCCACCTTTT	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGCGTCTTTACAGGCTCACTCATATAGATGCCACCTTTCTA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGAGAACTTCCTTACCTGCTAGCTACCAAGCCACCGTG	5120
Sbjct	5039	TCCCAGACAAAGCAGAGTGGGAGAACTTCCTTACCTGCTAGCTACCAAGCCACCGTG	5098
Query	5121	TGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTGATCCGC	5180
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Sbjct	6597	TAAGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
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Sbjct	6776	GAATACCCGGTAGGGTTCGCAATTACCTTGCGAGCCGAACCGGACGTAGCCGTGTTGACG	6835
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Sbjct	7015	ATGGAGGCAGGAGATGGGCGGCAACATACACAGGGTTGAGTCAGAAAAAAAGTGGTGAT	7074
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Sbjct	7075	CTGACTCCTTCGATCGGCTTGTGGCAGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
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Sbjct	7435	CCCTTCTGGGTGCCCCCGACTCCGACGCTGAGTCTATTCTTCCATGCCCCCGTGGGA	7494
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Sbjct	7495	GGGGAGGCTTGGGGATCCGGATCTTAGCGACGGGTTCATGGTCAACGGTCAGTAGTAGGC	7554
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Length=9599

Score = 1.477e+04 bits (7997), Expect = 0.0
Identities = 9127/9661 (94%), Gaps = 124/9661 (1%)
Strand=Plus/Plus

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Sbjct	481	GCGGACTAGGAAGGCTTCCGAGCGGTCGCAACCTCGTGAAGGCGCAACCTATCCCCA	540
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Sbjct	2114	GGCTACTTACACAAATATGGTCTGGGGCCCTGG-TTGACACCTAGGTGCTCTAGTAGACT	2172
Query	2173	ACCGGTATAGGCTTTGGCACTATCCTTGTAC-CATCAATTACACCATATCAAAAGTCAGG	2231
Sbjct	2173	ACCCATACAGGCTTTGGCACTACCCCTGCACTC-TCAATTTTTCATCTTTAAGGTTAGG	2231
Query	2232	ATGTACGTGGGAGGG-GTCGAGCACAGGCTGGAA-CGCGCTGCAACTGGACGCGGGGGG	2289
Sbjct	2232	ATGTATGTGGG-GGGCGTGGAGCACAGGCT-CAATGCCGATGCAATTGGAAGTGGAG	2289
Query	2290	AACGCTGTGATC-TGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGCCACC	2348
Sbjct	2290	AGCGCTGT-AACTTGGAGGACAGGGATAGGTGAGAACTCAGCCCGCTGCTGCTGTCTACA	2348
Query	2349	ACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCTGCCAGCCTTGTCCACCGGCGCTC	2408
Sbjct	2349	ACAGAGTGGCAGATCTGCCCTGTGCTTTACACACCTTACCGCGCTTTATCCACTTGTTTG	2408


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Query 2409 ATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGC-AT 2467
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Sbjct 2409 ATCCATCTCCATCAGAACATCGTGGACGTGCAATACCTGTACGGGTGATAGGTC-AGCGTT 2467
| | | | |
Query 2468 CG-CGTCTGGGCCATTAAAGTGGGAGTACGTCGT-TCCTCTGTTCCTTCTGCTTCGACAG 2525
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Sbjct 2468 TGTC-TCCTTTGCAATCAAATGGGAGTACATCCTGT-TGCTTTCTCTTCTCTGGCAGAC 2525
| | | | |
Query 2526 GCGCGCGTCTGCT-CCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTT 2584
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Sbjct 2526 GCGCGCGTGTG-TGCTGCTTGTGGATGATGCTGCTGATAGCCAGGCTGAGGCCGCGCTT 2584
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Query 2585 GGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGA-CGCACGGTCTTGTGTCCT 2643
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Sbjct 2585 AGAGAACTTGGTGGTCCCTCAATGCGGCGTCCGTGGCC-GGAGCGCATGGTATTCTCTCCT 2643
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Query 2644 TCTCGTGTCTTCTGCTTTCGCGGGTATC-TGAAGGGTAGG-TGGGTGCCCGGAGCGGT 2701
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Sbjct 2644 TTCTTGTGTTCTTCTGCGCCGCTGGTA-CATTAAAGGCGAGGCTGGCT-CCTGGGCGG- 2700
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Query 2702 C-TACGCCCTCTACGG-GATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTGTGCC-TCAGCG 2758
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Sbjct 2701 CGTATGCTTTTTATGCGC-TATGGCCGCTGCTCCTGCTCCTACTGGCGTTACACCA-CG 2758
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Query 2759 GGCATACGCACTGGACACGGAGGTGGCCGCGCTGTTGGCGCGGTGTTCTTGTGCGGTT 2818
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Sbjct 2759 AGCATATGCACCTGGACACGGAGGTGGCCGCGCTGTTGGCGCGGTGTTCTTGTGCGGTT 2818
| | | | |
Query 2819 AATGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT 2878
| | | | |
Sbjct 2819 AATGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT 2878
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Query 2879 TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGT 2938
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Sbjct 2879 TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGT 2938
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Query 2939 CggggggggCGGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCCTGGTATT 2998
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Sbjct 2939 CCGGGGGGGGCGGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCCTGGTATT 2998
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Query 2999 TGACATACCAAATACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT 3058
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Query 3059 GCTTAAAGTCCCCTACTTTCGTGCGCGTTTCAAGGCCCTTCTCCGGAATCGCGCGTAGCGG 3118
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Query 3179 CACCTATGTGTATAAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCTTCGCGAGA 3238
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Query 3299 GGGGCGAGATACCGCCGCGTGCAGTACATCAACGGCTTGGCCGCTCTTCGCCGTAG 3358
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Query 3419 GGCGCCCATACGCGGTACGCCAGCAGACGAGAGGCTCCTAGGGTGATAATCACCAG 3478
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| | | | |
Sbjct 3479 CTTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGGAGTCCAGATCGTGTCAACTGCTAC 3538
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Query	3539	CCAAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGCTACACGGGGCCGG	3598
Sbjct	3539	CCAAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGCTACACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATCACCAAGGGTCTGTCTATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599	AACGAGGACCATCGCATCACCAAGGGTCTGTCTATCCAGATGTATACCAATGTGGACCA	3658
Query	3659	AGACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGG	3718
Sbjct	3659	AGACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGG	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATTCCTGCGCCGCGGAGG	3778
Sbjct	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATTCCTGCGCCGCGGAGG	3778
Query	3779	TGATAGCAGGGGTAGCTTGTTCGCCCGGCCCATTTTCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGGTAGCTTGTTCGCCCGGCCCATTTTCCTACTTGAAAGGCTCCTCGGG	3838
Query	3839	GGGTCGGCTGTTGTGCCCGCGGGACACGCCGTGGGCTATTAGGGCCGCGGTGTGTAC	3898
Sbjct	3839	GGGTCGGCTGTTGTGCCCGCGGGACACGCCGTGGGCTATTAGGGCCGCGGTGTGTAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Query	3959	ATCCCCCGTGTTCACGGCAACTCCTCTCCACCAGCAGTGCCCGAGAGCTTCCAGGTGGC	4018
Sbjct	3959	ATCCCCCGTGTTCACGGCAACTCCTCTCCACCAGCAGTGCCCGAGAGCTTCCAGGTGGC	4018
Query	4019	CACCTGCATGCTCCACCACCGGCAGCGGTAAAGAGCAACAGGTCCGGTTCGGTACCGAGC	4078
Sbjct	4019	CACCTGCATGCTCCACCACCGGCAGCGGTAAAGAGCAACAGGTCCGGTTCGGTACCGAGC	4078
Query	4079	CAGGGGTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	CAGGGGTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Query	4139	TTACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTAC	4198
Query	4199	CACTGGCAGCCCATACGTACTCCACCTACGGCAAGTTCTCTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CACTGGCAGCCCATACGTACTCCACCTACGGCAAGTTCTCTGCCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	AGGAGGTGCTTATGACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACTGTCTTGTACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Sbjct	4319	CTTGGGCATCGGCACTGTCTTGTACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCAGTGTGTCCCATCTTAACATCGAGGAGGTTGC	4438
Sbjct	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCAGTGTGTCCCATCTTAACATCGAGGAGGTTGC	4438
Query	4439	TCGTGCCACACCGGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Sbjct	4439	TCGTGCCACACCGGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Query	4499	GGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCAGCAGCTCGCCGCGAA	4558
Sbjct	4499	GGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCAGCAGCTCGCCGCGAA	4558
Query	4559	GCTGGTCGATTGGGCATCAATGCCGTGGCCTACTACCGGGTCTTGACGTGCTGTGTCAT	4618
Sbjct	4559	GCTGGTCGATTGGGCATCAATGCCGTGGCCTACTACCGGGTCTTGACGTGCTGTGTCAT	4618
Query	4619	CCCGACCAGCGCGATGTTGTGCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCCGACCAGCGCGATGTTGTGCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678

Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACCTCAGACAGTCGATTTTCAGCCT	4738
Sbjct	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACCTCAGACAGTCGATTTTCAGCCT	4738
Query	4739	TGACCCCTACCTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCA	4798
Sbjct	4739	TGACCCCTACCTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCA	4798
Query	4799	ACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACC GGGGGA	4858
Sbjct	4799	ACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACC GGGGGA	4858
Query	4859	GCGCCCTCCGGCATGTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGGGGCTGTGC	4918
Sbjct	4859	GCGCCCTCCGGCATGTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGGGGCTGTGC	4918
Query	4919	TTGGTATGAGCTCAGCCCCCGGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919	TTGGTATGAGCTCAGCCCCCGGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTGGGAGGGCGCTTTTACGGGCTCAC	5038
Sbjct	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTGGGAGGGCGCTTTTACGGGCTCAC	5038
Query	5039	TCATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAACCTTTCCTTACCT	5098
Sbjct	5039	TCATATAGATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAACCTTTCCTTACCT	5098
Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCA	5158
Sbjct	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCA	5158
Query	5159	GATGTGGAAGTGTGTGATCCGCCCTAAACCCACCTCCATGGGGCAACACCCCTGCTATA	5218
Sbjct	5159	GATGTGGAAGTGTGTGATCCGCCCTAAACCCACCTCCATGGGGCAACACCCCTGCTATA	5218
Query	5219	CAGACTGGGCGCTGTTTCAAGTGAAGTACCCCTGACCGACCCCAATCACCATAATACATCAT	5278
Sbjct	5219	CAGACTGGGCGCTGTTTCAAGTGAAGTACCCCTGACCGACCCCAATCACCATAATACATCAT	5278
Query	5279	GACATGCATGTGCGCGACCTGGAGGTGCTCAGGAGCACCTGGGTGCTCGTGTGGCGCGT	5338
Sbjct	5279	GACATGCATGTGCGCGACCTGGAGGTGCTCAGGAGCACCTGGGTGCTCGTGTGGCGCGT	5338
Query	5339	CCTGGCTGCTCTGGCGCGTATTGCCTGTCAACAGGCTGCGTGGTATAGTGGGCAGGAT	5398
Sbjct	5339	CCTGGCTGCTCTGGCGCGTATTGCCTGTCAACAGGCTGCGTGGTATAGTGGGCAGGAT	5398
Query	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTCGA	5458
Sbjct	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTCGA	5458
Query	5459	TGAGATGGAAGATGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGA	5518
Sbjct	5459	TGAGATGGAAGATGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGA	5518
Query	5519	CGAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCGAGACCGCGTCCCCGCATGCAGAGGTTAT	5578
Sbjct	5519	CGAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCGAGACCGCGTCCCCGCATGCAGAGGTTAT	5578
Query	5579	CACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGCTTTTGGGCGAAGCACATGTG	5638
Sbjct	5579	CACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGCTTTTGGGCGAAGCACATGTG	5638
Query	5639	GAATTTCACTAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCCGC	5698
Sbjct	5639	GAATTTCACTAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCCGC	5698
Query	5699	CATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCACTGGCCAAAC	5758
Sbjct	5699	CATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCACTGGCCAAAC	5758
Query	5759	CCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGGTCGCCG	5818
Sbjct	5759	CCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGGTCGCCG	5818

Query	5819	TACTGCCTTTTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAA	5878
Sbjct	5819	TACTGCCTTTTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAA	5878
Query	5879	GGTCCTCGTGGACATTCTTGACAGGATATGGCGCGGGCGTGGCGGGAGCTCTTGAGCATT	5938
Sbjct	5879	GGTCCTCGTGGACATTCTTGACAGGATATGGCGCGGGCGTGGCGGGAGCTCTTGAGCATT	5938
Query	5939	CAAGATCATGAGCGGTGAGGTCCCTCCACGAGGAGCTTGGTCAATCTGCTGCCCGCCAT	5998
Sbjct	5939	CAAGATCATGAGCGGTGAGGTCCCTCCACGAGGAGCTTGGTCAATCTGCTGCCCGCCAT	5998
Query	5999	CCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCT	6058
Sbjct	5999	CCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCT	6058
Query	6059	TGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGG	6118
Sbjct	6059	TGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGG	6118
Query	6119	GAACCATGTTTCCCCCAGCAGCTACGTGCCGGAGAGCGATGACGCGCCGCGTCACTGC	6178
Sbjct	6119	GAACCATGTTTCCCCCAGCAGCTACGTGCCGGAGAGCGATGACGCGCCGCGTCACTGC	6178
Query	6179	CATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTC	6238
Sbjct	6179	CATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTC	6238
Query	6239	GGAGTGTACCACTCCATGCTCCGGTTCCCTGGCTAAGGGACATCTGGGACTGGATATGCGA	6298
Sbjct	6239	GGAGTGTACCACTCCATGCTCCGGTTCCCTGGCTAAGGGACATCTGGGACTGGATATGCGA	6298
Query	6299	GGTGCTGAGCGGACTTTAAGACCTGGCTGAAAGCCAAAGCTCATGCCACAACCTGGGAT	6358
Sbjct	6299	GGTGCTGAGCGGACTTTAAGACCTGGCTGAAAGCCAAAGCTCATGCCACAACCTGGGAT	6358
Query	6359	TCCTTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCAGGAGAGCGCATTATGCA	6418
Sbjct	6359	TCCTTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCAGGAGAGCGCATTATGCA	6418
Query	6419	CACCTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGAT	6478
Sbjct	6419	CACCTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGAT	6478
Query	6479	CGTCGGTCTTAGGACTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACAC	6538
Sbjct	6479	CGTCGGTCTTAGGACTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACAC	6538
Query	6539	CACGGGCCCCGTGACTCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGGTGTC	6598
Sbjct	6539	CACGGGCCCCGTGACTCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGGTGTC	6598
Query	6599	TGCAGAGGAATACGTGGAGATAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGAC	6658
Sbjct	6599	TGCAGAGGAATACGTGGAGATAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGAC	6658
Query	6659	TACTGACAACTTAAATGCCCGTGCCAGATCCCATGCCCGGAATTTTTCACAGAAATTGGA	6718
Sbjct	6659	TACTGACAACTTAAATGCCCGTGCCAGATCCCATGCCCGGAATTTTTCACAGAAATTGGA	6718
Query	6719	CGGGGTGCGCCCTACACAGGTTTGCGCCCTTGCAGAGCCCTTGTGTCGGGAGGAGGTATC	6778
Sbjct	6719	CGGGGTGCGCCCTACACAGGTTTGCGCCCTTGCAGAGCCCTTGTGTCGGGAGGAGGTATC	6778
Query	6779	ATTCAGAGTAGGACTCCACAGTACCGCGTGGGGTCGCAATTACCTTGCAGGCCGGAACC	6838
Sbjct	6779	ATTCAGAGTAGGACTCCACAGTACCGCGTGGGGTCGCAATTACCTTGCAGGCCGGAACC	6838
Query	6839	GGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGC	6898
Sbjct	6839	GGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGC	6898
Query	6899	CGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCT	6958
Sbjct	6899	CGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCT	6958

Query	6959	GTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCT	7018
Sbjct	6959	GTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCT	7018
Query	7019	CATAGAGGCTAACTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTC	7078
Sbjct	7019	CATAGAGGCTAACTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTC	7078
Query	7079	AGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCG	7138
Sbjct	7079	AGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCG	7138
Query	7139	GGAGGTCTCCGTACCTGCAGAAATTTCGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCC	7198
Sbjct	7139	GGAGGTCTCCGTACCTGCAGAAATTTCGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCC	7198
Query	7199	CGTCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTA	7258
Sbjct	7199	CGTCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTA	7258
Query	7259	CGAACCACTGTGGTCCATGGCTGCCCGCTACCACTTCCACGGTCCCTCTCTGTGCTCC	7318
Sbjct	7259	CGAACCACTGTGGTCCATGGCTGCCCGCTACCACTTCCACGGTCCCTCTCTGTGCTCC	7318
Query	7319	GCCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCATATCTACTGCCTTGGCCGA	7378
Sbjct	7319	GCCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCATATCTACTGCCTTGGCCGA	7378
Query	7379	GCTTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGCAATACGAC	7438
Sbjct	7379	GCTTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGCAATACGAC	7438
Query	7439	AACATCCTCTGAGCCCGCCCTTCTGGCTG ccccccc GACTCCGACGTTGAGTCTTATTC	7498
Sbjct	7439	AACATCCTCTGAGCCCGCCCTTCTGGCTG ccccccc GACTCCGACGTTGAGTCTTATTC	7498
Query	7499	TTCCATG ccccccc TGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCTATGGTC	7558
Sbjct	7499	TTCCATG ccccccc TGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCTATGGTC	7558
Query	7559	GACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTG	7618
Sbjct	7559	GACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTG	7618
Query	7619	GACAGGCGCACTCGTACCCCGTGCCTGCGGAAGAAACAAAACCTGCCATCAACGCACT	7678
Sbjct	7619	GACAGGCGCACTCGTACCCCGTGCCTGCGGAAGAAACAAAACCTGCCATCAACGCACT	7678
Query	7679	GAGCAACTCGTGTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTCAACGAGTGCTTG	7738
Sbjct	7679	GAGCAACTCGTGTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTCAACGAGTGCTTG	7738
Query	7739	CCAAAGGCAGAAAGTACATTGTACAGACTGCAAGTTCTGGACAGCCATTACCAGGA	7798
Sbjct	7739	CCAAAGGCAGAAAGTACATTGTACAGACTGCAAGTTCTGGACAGCCATTACCAGGA	7798
Query	7799	CGTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGA	7858
Sbjct	7799	CGTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGA	7858
Query	7859	GGAAGCTTGACGCTGACGCCCCACATTCAGCCAAATCCAAGTTTGCTATGGGGCAAA	7918
Sbjct	7859	GGAAGCTTGACGCTGACGCCCCACATTCAGCCAAATCCAAGTTTGCTATGGGGCAAA	7918
Query	7919	AGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCAACATCAACTCCGTGTGGAAAGACCT	7978
Sbjct	7919	AGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCAACATCAACTCCGTGTGGAAAGACCT	7978
Query	7979	TCGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTG	8038
Sbjct	7979	TCGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTG	8038
Query	8039	CGTTTCAGCCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGG	8098
Sbjct	8039	CGTTTCAGCCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGG	8098

Query	8099	CGTGC	CGCGTGTG	CGAGAA	GATGG	CCCTGT	TACGAC	GTGGT	TAGCA	AGCTCC	CCCTG	GCCGT	8158
Sbjct	8099	CGTGC	CGCGTGTG	CGAGAA	GATGG	CCCTGT	TACGAC	GTGGT	TAGCA	AGCTCC	CCCTG	GCCGT	8158
Query	8159	GATGG	GAAGCTCC	TACGGA	TCCAAT	ACTACC	AGGAC	AGCGGG	TGAAT	TCCTCG	TGGA		8218
Sbjct	8159	GATGG	GAAGCTCC	TACGGA	TCCAAT	ACTACC	AGGAC	AGCGGG	TGAAT	TCCTCG	TGGA		8218
Query	8219	AGCGT	GGAAGT	CCAAGA	AGACCC	CGATGG	GGTTCT	CGTATG	ATACCC	GCTGTT	TGACTC		8278
Sbjct	8219	AGCGT	GGAAGT	CCAAGA	AGACCC	CGATGG	GGTTCT	CGTATG	ATACCC	GCTGTT	TGACTC		8278
Query	8279	CACAGT	CACTGAG	AGCGAC	ATCCGT	ACGGAG	GAGGCA	ATTACCA	ATGTTGTG	ACCTGGA			8338
Sbjct	8279	CACAGT	CACTGAG	AGCGAC	ATCCGT	ACGGAG	GAGGCA	ATTACCA	ATGTTGTG	ACCTGGA			8338
Query	8339	CCCCA	AGCCCG	CGTGGC	CATCAAGT	CCCTCA	CTGAGAG	GCTTTATG	TGTGGG	GGCCCTCT			8398
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Query	8399	TACCA	ATTCAAG	GGGGG	AAAACT	GCGGCT	TACGCA	AGGTGCC	CGCGG	CAGCGG	CTACTGAC		8458
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Query	8519	AGGGC	TCCAGG	ATGCAC	CATGCT	CGTGTG	TGGCGAC	GACTTAGT	CGTTAT	CTGTG	AAAG		8578
Sbjct	8519	AGGGC	TCCAGG	ATGCAC	CATGCT	CGTGTG	TGGCGAC	GACTTAGT	CGTTAT	CTGTG	AAAG		8578
Query	8579	TGCGG	GGGTCC	AGGAGG	ACGCGG	CAGCCT	GAGAGC	CTTACG	GAGGCT	TATGAC	CAGGTA		8638
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Sbjct	8699	CTCCT	CCAACG	TGTCA	GTCGCC	CACGAC	GGCGCT	GGAAG	GAGGGT	CTACTAC	CTTACCG		8758
Query	8759	TGACCT	TACAAC	CCCCCT	CGCGAG	AGCCGCT	GAGAGAC	AGACAC	ACTCCAGT	CAA			8818
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Sbjct	8819	TTCTT	GGCTAG	GCAAC	ATAAT	CATGTT	TGCCCC	ACACTG	TGGGC	GAGGAT	GATACT	GAT	8878
Query	8879	GACCC	ATTTC	TTAGCGT	CCTCAT	AGCCAG	GGATCAG	CTTGA	ACAGGCT	CTTAACT	GTTGA		8938
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Query	8939	GATCT	ACGGAG	CTGCTAC	TCCATAG	AACCACT	TGGATCTAC	CTTCA	ATCATTCA	AAAGACT			8998
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Query	8999	CATGG	CCCTCAG	CGCAATTT	TCACTCC	ACAGTTACT	CTCCAG	GTTAAAT	CAATAG	GGTGGC			9058
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Query 9299 TGCCCGGCCCCCGCTGGTTCGGTTTGGCTACTCCTGCTCGCTGCAGGGGTAGGCATCTA 9358
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Sbjct 9419 ||| 9478

Query 9479 ||| 9538
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Query 9539 AAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATG 9598
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>gb|AR119833.1|AR119833 Sequence 6 from patent US 6153421
Length=9599

Score = 1.477e+04 bits (7997), Expect = 0.0
Identities = 9127/9661 (94%), Gaps = 124/9661 (1%)
Strand=Plus/Plus

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Sbjct 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAAGTACTG 60

Query 61 TCTTCACGCAGAAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGAGCCTCCAGGAG 120
Sbjct 61 TCTTCACGCAGAAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGAGCCTCCAGGAG 120

Query 121 ||| 180
Sbjct 121 ||| 180

Query 181 GACGACCGGGTCTCTTTCTTGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC 240
Sbjct 181 GACGACCGGGTCTCTTTCTTGATCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC 240

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Sbjct 241 GCGAGACTGTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTGTGGTACTGCCTGATAGG 300

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Sbjct 541 AGGCTCGCGCAACCGAGGGCAGGGCTGGGCTCAGCCCGGGTACCTTGGCCCTCTATG 600

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Query	601	GCAATGAGGG--TTGCGGGTGGCGGGATGGCTCTCTCCCGTGGCTCTCGGCCATAGC	659
Sbjct	601	GCAATGAGGGCCCTG--GGTGGGCAGGATGGCTCTGTACACCCGCGGCTCCCGGCTAGT	659
Query	660	TGGGGCCCCACAGACCCCCGCGTAGGTGCGCAATTGGGTAAGGTATCATGATACCCCTT	719
Sbjct	660	TGGGGCCCCACGAGACCCCCGCGTAGGTGCGTAACCTTGGGTAAGGTATCATGATACCCCTT	719
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Sbjct	720	ACATGCGGCTTCGCCGATCATATGGGGTACATTCCGCTCGTCGCGGCCCTCTAGGGGGC	779
Query	780	GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAAGCGCGTGAACATATGCAACA	839
Sbjct	780	GCTGCCAGGGCCCTTGGCACAGGGTGTCCGGGTTCTGGAGGACGGCGTGAACATATGCAACA	839
Query	840	GGGAACCTT--CCTGGTGTCTTTTCTCTATCTTCCTTC--TGGCCCTGCTCTCTTGGCTGA	897
Sbjct	840	GGGAA--CTTGCCCGGTGTGCTTTTCTCTATCTTCC--TCTTGGCTCTGCTGTCTTGTGA	897
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Sbjct	898	CCAT--CCAGCTTCCGCTTATGAAGTGGCAAAGT--GTCCGGGATATACCATGTACAGAA	955
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Sbjct	956	CGACTGTCTCC--AACTCAAGCATTTGTATGAGGACAGCGGACGTGATCATGCATACTCCG	1014
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Query	1422	TA--TTTCTCCATGGTGGGGAAGTGGGCGAAGGTCTCGGTAGT--GCTGTGCTATTGGCG	1479
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Query	1480	CGGTGACGGGGAACCCACGTC--ACCGGGGA--AAT--GCCGGCCGACACCGGTGGG	1536
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Sbjct	1825	GTGTCGTACCCCGGTGCGAG-GTGTGTGGTCCAGTGTAATTGTTTAC-CCCAAGCCCTGT	1882
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Sbjct	1883	TGTGTGGGACCAACGATC-GTTCGGGTGTC-CCTACGTATAGCTGGGG-GGAGAAATGA	1939
Query	1940	TACGGATGT-CTTCGTCTTAACAACAC-CAGGCCACCGCTGGGCAATTGGTTCGGTGT	1997
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Query	1998	ACCTGGATGAATCA--ACTGGATTACCAAAG-TGTGCGGAGCG-CCCCCTTGTGTCA	2053
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Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
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Sbjct	4019	CCACCTGCATGCTCCACCAGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGC	4078
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Sbjct	4079	CCAGGGGTACAAGGTGTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGGTTTGGTGC	4138
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Sbjct	4199	CACCTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGGCCGACGGCGGGTGCTC	4258
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Sbjct	4259	AGGAGGTGCTTATGACATAAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
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Sbjct	4319	CTTGGGCATCGGCACCTGTCTTGTACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
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Sbjct	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACCTGTGTCCCATCTTAACATCGAGGAGGTTGC	4438
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Sbjct	4559	GCTGGTCGCATTTGGGCATCAATGCCGTGGCCTACTACCGGGGCTTTGACGTGCTGTGCAT	4618
Query	4619	CCCAGCAGCGGCGATGTTGTGCTGTCGTCGACCGAGTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCCAGCAGCGGCGATGTTGTGCTGTCGTCGACCGAGTCTCATGACTGGCTTTACCGG	4678
Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCT	4738
Sbjct	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCT	4738
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Sbjct	4739	TGACCCCTACCTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCA	4798
Query	4799	ACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACC GGGGGA	4858
Sbjct	4799	ACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACC GGGGGA	4858
Query	4859	GCGCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGGGGCTGTGC	4918
Sbjct	4859	GCGCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGGGGCTGTGC	4918
Query	4919	TTGGTATGAGCTCAGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919	TTGGTATGAGCTCAGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Query	4979	GGGGCTTCCCGTGTGCGCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCAC	5038
Sbjct	4979	GGGGCTTCCCGTGTGCGCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCAC	5038
Query	5039	TCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTTCTTACCT	5098
Sbjct	5039	TCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTTCTTACCT	5098

Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCA	5158
Sbjct	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCA	5158
Query	5159	GATGTGGAAGTGTGTTGATCCGCCTTAAACCCACCCCTCCATGGGGCAACACCCCTGCTATA	5218
Sbjct	5159	GATGTGGAAGTGTGTTGATCCGCCTTAAACCCACCCCTCCATGGGGCAACACCCCTGCTATA	5218
Query	5219	CAGACTGGGCGCTGTTTCAGAATGAAGTCACCTGACGCACCCAAATACCAAATACATCAT	5278
Sbjct	5219	CAGACTGGGCGCTGTTTCAGAATGAAGTCACCTGACGCACCCAAATACCAAATACATCAT	5278
Query	5279	GACATGCATGTGCGGCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Sbjct	5279	GACATGCATGTGCGGCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Query	5339	CCTGGCTGCTCTGGCGCGGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Sbjct	5339	CCTGGCTGCTCTGGCGCGGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Query	5399	CGTCTTTGTCGGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGA	5458
Sbjct	5399	CGTCTTTGTCGGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGA	5458
Query	5459	TGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGA	5518
Sbjct	5459	TGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGA	5518
Query	5519	GCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGAGAGCCGCTCCCGCCATGCAGAGTTAT	5578
Sbjct	5519	GCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGAGAGCCGCTCCCGCCATGCAGAGTTAT	5578
Query	5579	CACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTG	5638
Sbjct	5579	CACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTG	5638
Query	5639	GAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGC	5698
Sbjct	5639	GAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGC	5698
Query	5699	CATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCACTGGCCAAAC	5758
Sbjct	5699	CATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCACTGGCCAAAC	5758
Query	5759	CCTCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTGCCGCCCGCGGTGCCGC	5818
Sbjct	5759	CCTCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTGCCGCCCGCGGTGCCGC	5818
Query	5819	TACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAA	5878
Sbjct	5819	TACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAA	5878
Query	5879	GGTCCTCGTGGAACATCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTTAGCATT	5938
Sbjct	5879	GGTCCTCGTGGAACATCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTTAGCATT	5938
Query	5939	CAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCAT	5998
Sbjct	5939	CAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCAT	5998
Query	5999	CCTCTCGCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGGCAGCAATACTGCCCGGACGT	6058
Sbjct	5999	CCTCTCGCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGGCAGCAATACTGCCCGGACGT	6058
Query	6059	TGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGCTAATAGCCTTCGCTCCCGGGG	6118
Sbjct	6059	TGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGCTAATAGCCTTCGCTCCCGGGG	6118
Query	6119	GAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCATGACGCGCGCCGCTCACTGC	6178
Sbjct	6119	GAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCATGACGCGCGCCGCTCACTGC	6178
Query	6179	CATACTCAGCAGCTCACTGTAACCCAGCTCTGAGGCGACTGCATCAGTGGATAAGCTC	6238
Sbjct	6179	CATACTCAGCAGCTCACTGTAACCCAGCTCTGAGGCGACTGCATCAGTGGATAAGCTC	6238

Query	6239	GGAGTGTACCACTCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGA	6298
Sbjct	6239	GGAGTGTACCACTCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGA	6298
Query	6299	GGTGTGAGCGACTTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGAT	6358
Sbjct	6299	GGTGTGAGCGACTTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGAT	6358
Query	6359	TCCCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCAGGAGACGCGATTATGCA	6418
Sbjct	6359	TCCCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCAGGAGACGCGATTATGCA	6418
Query	6419	CACCTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGAT	6478
Sbjct	6419	CACCTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGAT	6478
Query	6479	CGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACAC	6538
Sbjct	6479	CGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACAC	6538
Query	6539	CACGGGCCCCCTGTACTCCCTTCTTCGCCCGAAGCTATAAGTTCGCGCTGTGGAGGGTGTCT	6598
Sbjct	6539	CACGGGCCCCCTGTACTCCCTTCTTCGCCCGAAGCTATAAGTTCGCGCTGTGGAGGGTGTCT	6598
Query	6599	TGCAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGAC	6658
Sbjct	6599	TGCAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGAC	6658
Query	6659	TACTGACAACTCTAAATGCCCGTGCCAGATCCCAATCGCCGAATTTTTCACAGAATTGGA	6718
Sbjct	6659	TACTGACAACTCTAAATGCCCGTGCCAGATCCCAATCGCCGAATTTTTCACAGAATTGGA	6718
Query	6719	CGGGGTGCGCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCT	6778
Sbjct	6719	CGGGGTGCGCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCT	6778
Query	6779	ATTACAGAGTAGGACTCCACAGTACCCGGTGGGGTGCAGTAATACCTTGCGAGCCCGAACC	6838
Sbjct	6779	ATTACAGAGTAGGACTCCACAGTACCCGGTGGGGTGCAGTAATACCTTGCGAGCCCGAACC	6838
Query	6839	GGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCG	6898
Sbjct	6839	GGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCG	6898
Query	6899	CGGGAGAAGGTTGGCGAGAGGGTACCCCTTCTATGGCCAGCTCCTCGGTAGCCAGCT	6958
Sbjct	6899	CGGGAGAAGGTTGGCGAGAGGGTACCCCTTCTATGGCCAGCTCCTCGGTAGCCAGCT	6958
Query	6959	GTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCT	7018
Sbjct	6959	GTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCT	7018
Query	7019	CATAGAGGCTAACTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTC	7078
Sbjct	7019	CATAGAGGCTAACTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTC	7078
Query	7079	AGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCG	7138
Sbjct	7079	AGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCG	7138
Query	7139	GGAGGTCTCCGTAACCTGCAGAAATCTGCGGAAGTCTCGGAGATTCGCCGGGCCCTGCC	7198
Sbjct	7139	GGAGGTCTCCGTAACCTGCAGAAATCTGCGGAAGTCTCGGAGATTCGCCGGGCCCTGCC	7198
Query	7199	CGTCTGGGCGCGCCGGACTACAACCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTA	7258
Sbjct	7199	CGTCTGGGCGCGCCGGACTACAACCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTA	7258
Query	7259	CGAACCACCTGTGGTCCATGGCTGCCCGCTACCACTCCACGCTCCCTCTCTGTGCTCC	7318
Sbjct	7259	CGAACCACCTGTGGTCCATGGCTGCCCGCTACCACTCCACGCTCCCTCTCTGTGCTCC	7318
Query	7319	GCCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCTTGGCCGA	7378
Sbjct	7319	GCCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCTTGGCCGA	7378

Query	7379	GCTTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCGGGCATTACGGGCGACAATACGAC	7438
Sbjct	7379	GCTTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCGGGCATTACGGGCGACAATACGAC	7438
Query	7439	AACATCCTCTGAGCCCGCCCTTCTGGCTGccccccGACTCCGAGCTTGAGTCCCTATTTC	7498
Sbjct	7439	AACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGAGCTTGAGTCCCTATTTC	7498
Query	7499	TTCCATGccccccTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCTATGGTC	7558
Sbjct	7499	TTCCATGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCTATGGTC	7558
Query	7559	GACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCTG	7618
Sbjct	7559	GACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTCTG	7618
Query	7619	GACAGGCGCACTCGTCACCCGTCGCGTCGGAAGAACAAAACTGCCCATCAACGCACCT	7678
Sbjct	7619	GACAGGCGCACTCGTCACCCGTCGCGTCGGAAGAACAAAACTGCCCATCAACGCACCT	7678
Query	7679	GAGCAACTCGTGTGCTACGCCATCACAATCTGGTGTATTCCACCACCTCAGCAGTGCTTG	7738
Sbjct	7679	GAGCAACTCGTGTGCTACGCCATCACAATCTGGTGTATTCCACCACCTCAGCAGTGCTTG	7738
Query	7739	CCAAAGGCAGAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGA	7798
Sbjct	7739	CCAAAGGCAGAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGA	7798
Query	7799	CGTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGA	7858
Sbjct	7799	CGTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGA	7858
Query	7859	GGAAGCTTGCAGCTGACGCCCCACATTCAGCCAAATCCAAGTTTGCTATGGGGCAA	7918
Sbjct	7859	GGAAGCTTGCAGCTGACGCCCCACATTCAGCCAAATCCAAGTTTGCTATGGGGCAA	7918
Query	7919	AGACGTCCGTGTCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCT	7978
Sbjct	7919	AGACGTCCGTGTCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCT	7978
Query	7979	TCGTGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTG	8038
Sbjct	7979	TCGTGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTG	8038
Query	8039	CGTTCAGCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTCCCGGACCTGGG	8098
Sbjct	8039	CGTTCAGCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTCCCGGACCTGGG	8098
Query	8099	CGTGCCTGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCGCTGGCCGT	8158
Sbjct	8099	CGTGCCTGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCGCTGGCCGT	8158
Query	8159	GATGGGAAGCTCCTACGGATTCCAATACTACCCAGGACAGCGGGTTGAATTCCCTCGTGA	8218
Sbjct	8159	GATGGGAAGCTCCTACGGATTCCAATACTACCCAGGACAGCGGGTTGAATTCCCTCGTGA	8218
Query	8219	AGCGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGACTC	8278
Sbjct	8219	AGCGTGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGACTC	8278
Query	8279	CACAGTCTACTGAGAGGCACATCCGTACGGAGGAGCAATTACCAATGTTGTACCTGGA	8338
Sbjct	8279	CACAGTCTACTGAGAGGCACATCCGTACGGAGGAGCAATTACCAATGTTGTACCTGGA	8338
Query	8339	CCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCT	8398
Sbjct	8339	CCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCT	8398
Query	8399	TACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGGAGCGCGTACTGAC	8458
Sbjct	8399	TACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGGAGCGCGTACTGAC	8458
Query	8459	AACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGC	8518
Sbjct	8459	AACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGC	8518

Query	8519	AGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAG	8578
Sbjct	8519	AGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAG	8578
Query	8579	TGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGAGGCTATGACCAGGTA	8638
Sbjct	8579	TGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGAGGCTATGACCAGGTA	8638
Query	8639	CTCCGCCCCCCCCGGGGAACCCCAACACAGAAATACGACTTGGAGCTTATAACATCATG	8698
Sbjct	8639	CTCCGCCCCCCCCGGGGAACCCCAACACAGAAATACGACTTGGAGCTTATAACATCATG	8698
Query	8699	CTCCTCCAACGTGTCACTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCG	8758
Sbjct	8699	CTCCTCCAACGTGTCACTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCG	8758
Query	8759	TGACCTTACAACCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTCAA	8818
Sbjct	8759	TGACCTTACAACCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTCAA	8818
Query	8819	TTCTTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGCGAGGATGATACTGAT	8878
Sbjct	8819	TTCTTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGCGAGGATGATACTGAT	8878
Query	8879	GACCCATTTCCTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGA	8938
Sbjct	8879	GACCCATTTCCTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGA	8938
Query	8939	GATCTACGGAGCTGTCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACT	8998
Sbjct	8939	GATCTACGGAGCTGTCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACT	8998
Query	8999	CATGGCCTCAGCGCATTTTCACTCCACAGTTACTTCCAGGTGAAATCAATAGGGTGGC	9058
Sbjct	8999	CATGGCCTCAGCGCATTTTCACTCCACAGTTACTTCCAGGTGAAATCAATAGGGTGGC	9058
Query	9059	CGCATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGGCTTGGAGACACCGGGCCGGAG	9118
Sbjct	9059	CGCATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGGCTTGGAGACACCGGGCCGGAG	9118
Query	9119	CGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTT	9178
Sbjct	9119	CGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTT	9178
Query	9179	CAACTGGGCAGTAAGAACAAAGCTCAAACCTACTCCAATAGCGGCCGCTGGCCGGCTGGA	9238
Sbjct	9179	CAACTGGGCAGTAAGAACAAAGCTCAAACCTACTCCAATAGCGGCCGCTGGCCGGCTGGA	9238
Query	9239	CTGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCA	9298
Sbjct	9239	CTGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCA	9298
Query	9299	TGCCCGGGCCCGCTGGTTCTGGTTTTCGCTACTCTGCTCGCTGACAGGGGTAGGCATCTA	9358
Sbjct	9299	TGCCCGGGCCCGCTGGTTCTGGTTTTCGCTACTCTGCTCGCTGACAGGGGTAGGCATCTA	9358
Query	9359	CCTCCTCCCCAACCGATGAAGGTGGGGTAAACACTCCGGCTCTTAAAGCCATTTCCTGT	9418
Sbjct	9359	CCTCCTCCCCAACCGATGAAGGTGGGGTAAACACTCCGGCTCTTAAAGCCATTTCCTGT	9418
Query	9419	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTCTTCCCTTCTTTTTT	9478
Sbjct	9419	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTCTTCCCTTCTTTTTT	9478
Query	9479	CTTTCTTTTCTCTCTTTTAAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTG	9538
Sbjct	9479	CTTTCTTTTCTCTCTTTTAAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTG	9538
Query	9539	AAAGGTCCTGTAGCCGCATGACTGCAGAGAGTGCTGATACTGGCTCTCTGCAGATCATG	9598
Sbjct	9539	AAAGGTCCTGTAGCCGCATGACTGCAGAGAGTGCTGATACTGGCTCTCTGCAGATCATG	9598
Query	9599	T 9599	
Sbjct	9599	T 9599	

>gb|AR118728.1|AR118728 Sequence 137 from patent US 6150087
Length=8987

Score = 1.443e+04 bits (7813), Expect = 0.0
Identities = 8602/8993 (95%), Gaps = 14/8993 (0%)
Strand=Plus/Plus

Query	342	ATGAGCAGCAATCCTAAACCTCAAAGAAAAACCAACGTAAACCAACCGTCGCCACAG	401
Sbjct	1	ATGAGCAGCAATCCTAAACCTCAAAGAAAAACCAACGTAAACCAACCGTCGCCACAG	60
Query	402	GACGTCAGATTCCCGGGTGGCGGTGAGATCGTTGGTGGAGTTTACTTGTGTCGCCGCGAGG	461
Sbjct	61	GACGTCAGATTCCCGGGTGGCGGTGAGATCGTTGGTGGAGTTTACTTGTGTCGCCGCGAGG	120
Query	462	GGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGT	521
Sbjct	121	GGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGT	180
Query	522	AGACGTCAGCCTATCCCCAAGGCACGTCGGCCGAGGGCAGGACCTGGGCTCAGCCCCGGG	581
Sbjct	181	AGACGTCAGCCTATCCCCAAGGCCTCGTCGGCCGAGGGCAGGACCTGGGCTCAGCCCCGGG	240
Query	582	TACCCCTTGGCCCCCTCTATGGCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCC	641
Sbjct	241	TACCCCTTGGCCCCCTCTATGGCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCC	300
Query	642	CTGTGGCTCTCGGCCCTAGCTGGGGCCCCACAGACCCCGGCGTAGGTCGCGCAATTTGGGT	701
Sbjct	301	CTGTGGCTCTCGGCCCTAGCTGGGGCCCCACAGACCCCGGCGTAGGTCGCGCAATTTGGGT	360
Query	702	AAGGTCATCGATACCCCTTACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTC	761
Sbjct	361	AAGGTCATCGATACCCCTTACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTC	420
Query	762	GGCGCCCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGAC	821
Sbjct	421	GGCGCCCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGAC	480
Query	822	GGCGTGAACATATGCAACAGGGAACCTTCTGGTTGCTCTTTCTCTATCTTCTTCTGGCC	881
Sbjct	481	GGCGTGAACATATGCAACAGGGAACCTTCTGGTTGCTCTTTCTCTATCTTCTTCTGGCC	540
Query	882	CTGCTCTCTTGGCTGACTGTGCCGCTTCAGCCTACCAAGTGCAGCAATTCCTCGGGGCTT	941
Sbjct	541	CTGCTCTCTTGGCTGACTGTGCCGCTTCAGCCTACCAAGTGCAGCAATTCCTCGGGGCTT	600
Query	942	TACCATGTACCAATGATTGCCCTAACTCGAGTATTGTGTACGAGGCGGCGATGCCATC	1001
Sbjct	601	TACCATGTACCAATGATTGCCCTAACTCGAGTATTGTGTACGAGGCGGCGATGCCATC	660
Query	1002	CTGCACACTCCGGGGTGTGTCCTTTCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTG	1061
Sbjct	661	CTGCACACTCCGGGGTGTGTCCTTTCGTTTCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTG	720
Query	1062	CGGGTGACCCCCACGGTGGCCACAGGGACGGCAAACTCCCCACAACGAGCTTCGACGT	1121
Sbjct	721	CGGATGACCCCTACGGTGGCCACAGGGATGGCAAACTCCCCGCGACGAGCTTCGACGT	780
Query	1122	CATATCGATCTGCTTGTGCGGAGCGCCACCTCTGCTCGGCCCTCTACGTGGGGGACCTG	1181
Sbjct	781	CACATCGATCTGCTTGTGCGGAGCGCCACCTCTGCTCGGCCCTCTACGTGGGGGACCTG	840
Query	1182	TGCGGGTCTGCTTTCTTGTGTTGTCACCTGTTTACCTTCTCTCCAGGCGCACTGGAGC	1241
Sbjct	841	TGCGGGTCTGCTTTCTTGTGTTGTCACCTGTTTACCTTCTCTCCAGGCGCACTGGAGC	900
Query	1242	ACGCAAGACTGCAATTGTTCTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGG	1301
Sbjct	901	ACGCAAGGTTGCAATTGTTCTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGG	960
Query	1302	GATATGATGATGAACCTGGTCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATC	1361
Sbjct	961	GATATGATGATGAACCTGGTCCCTACGACGGCGTTGGTAAATGGCTCAGCTGCTCCGGATC	1020

Query	1362	CCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCATAGCG	1421
Sbjct	1021	CCACAAGCCATCTTGGACATGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGCATAGCG	1080
Query	1422	TATTTCCTCATGTGGGGAAGTGGGCGAAGGTCCTGGTAGTGCTGCTATTTCGCCGC	1481
Sbjct	1081	TATTTCCTCATGTGGGGAAGTGGGCGAAGGTCCTGGTAGTGCTGCTATTTCGCCGC	1140
Query	1482	GTCGACGCGGAAACCCACGTACCGGGGAAATGCCGGCCGACACCACGGCTGGGCTTGT	1541
Sbjct	1141	GTCGACGCGGAAACCCACGTACCGGGGAAATGCCGGCCGACACTGTGTCTGGAATTGT	1200
Query	1542	GGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAAGTATCAACACCAACGGCAGTTGG	1601
Sbjct	1201	AGCCTCTCTCGCAGGCGGCCAAGCAGAACGTCACGTGATCAACACCAACGGCAGTTGG	1260
Query	1602	CACATCAATAGCAGCGCCTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGG	1661
Sbjct	1261	CACCTCAATAGCAGCGCCTGAATGCAATGATAGCCTCAACACCGGCTGGTTGGCAGGG	1320
Query	1662	CTCTTCTATACACACAAATCAACTCTTCAGGCTGTCTGAGAGGTGGCCAGCTGCCGA	1721
Sbjct	1321	CTTTTCTATACACCAAGTTCAACTCTTCAGGCTGTCTGAGAGGTAGCCAGCTGCCGA	1380
Query	1722	CGCCTTACCGAATTTTGCCAGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCT	1781
Sbjct	1381	CCCTTACCGAATTTTGACAGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCT	1440
Query	1782	GACGAACGCCCTACTGTGGCACTACCTCCAAGACCTTGTGGCATTGTGCCCGAAAG	1841
Sbjct	1441	GACGAGCGCCCTACTGTGGCACTACCCCCAAACCTTGGCGTATTGTGCCCGGAAG	1500
Query	1842	AGCGTGTGTGGCCCGGTATATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGAC	1901
Sbjct	1501	AGTGTGTGTGGTCCGGTATATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGAC	1560
Query	1902	AGGTGGGCGCGCCTACCTACAGCTGGGGTGCAAAATGATACGGATGTCTTCGTCCTTAAC	1961
Sbjct	1561	AGGTCCGCGCGCCCACTACAGCTGGGGTGCAAAATGATACGGAGTGTCTTCGTCCTTAAC	1620
Query	1962	AACACGAGGCCACCGCTGGGCAATTGGTTTCGGTTGTACCTGGATGAACCTAAGTGGATT	2021
Sbjct	1621	AATACGAGGCCACCGCTGGGCAATTGGTTTCGGTTGTACCTGGATGAACCTAAGTGGATT	1680
Query	2022	ACCAAAGTGTGCGGAGCGCCCCCTTGTGTGTCATCGGAGGGGTGGGCAACACACCTTGCT	2081
Sbjct	1681	ACCAAAGTGTGCGGAGCGCCCCCTTGTGTGTCATCGGAGGGGCGGGCAACACACCTGCAC	1740
Query	2082	TGCCCCACTGATTGCTTCCGCAACATCCGAAGCCACATATCTCGGTGCGGCTCCGGT	2141
Sbjct	1741	TGCCCCACTGATTGCTTCCGCAACATCCGAGCGCCACATATCTCGGTGCGGCTCCGGT	1800
Query	2142	CCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGT	2201
Sbjct	1801	CCCTGGATCACACCCAGGTGCCTGGTCGACTACCCGTATAGGCTTTGGCATTATCCTTGT	1860
Query	2202	ACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGGAGGGTCGAGCACAGGCTG	2261
Sbjct	1861	ACCATCAACTACACCATATTTAAATCAGGATGTACGTGGGAGGGTCGAGCACAGGCTG	1920
Query	2262	GAAGCGGCTGCAACTGGACGCGGGGCGAACGCTGTGATCTGGAAGACAGGACAGGCTC	2321
Sbjct	1921	GAAGCTGCTGCAACTGGACGCGGGGCGAACGTTGCGATCTGGAAGACAGGACAGGCTC	1980
Query	2322	GAGCTCAGCCCGTGTGCTGTCCACACACAGTGGCAGGTCCCTCCGTGTTCTTTACG	2381
Sbjct	1981	GAGCTCAGCCCGTGTGCTGTCCACACACAGTGGCAGGTCTCCCGTGTCTTTACAC	2040
Query	2382	ACCCTGCCAGCCTTGTCCACCGGCTCATCCACCTCCACAGAACATTGTGGAGTGCAG	2441
Sbjct	2041	ACCCTACGAGCCTTGTCCACCGGCTCATCCACCTCCACAGAACATTGTGGAGTGCAG	2100
Query	2442	TACTTGTACGGGTAGGGTCAAGCATCGCGTCTTGGGCGATTAAAGTGGAGTACGTCGT	2501
Sbjct	2101	TACTTGTACGGGTGGGGTCAAGCATCGCGTCTTGGGCCATTAAAGTGGAGTACGTCGT	2160

Query	2502	CTCCGTGTTCCCTTCTGCTTGACAGCGCGCGCTGCTGCTTCTGTTGATGATGTTACTC	2561
Sbjct	2161	CTCCGTGTTCCCTTCTGCTTGACAGCGCGCGCTGCTGCTTCTGTTGATGATGCTACTC	2220
Query	2562	ATATCCCAAGCGGAGGCGGCTTTGGAGAACCCTCGTAATACTCAATGCAGCATCCCTGGCC	2621
Sbjct	2221	ATATCCCAAGCGGAGGCGGCTTTGGAGAACCCTCGTAATACTTAATGCAGCATCCCTGGCC	2280
Query	2622	GGGACGCACGGTCTTGTCCTTCTCTGTTCTTCTGCTTTCGCTGTTATCTGAAGGGT	2681
Sbjct	2281	GGGACGCACGGTCTTGATATCTTCTCTGTTCTTCTGCTTTCGATGATATTGAAGGGT	2340
Query	2682	AGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTGGCCTCTCTCTCTGCTCTTG	2741
Sbjct	2341	AAGTGGGTGCCCGGAGCGGTCTACACCTTCTACGGGATGTGGCCTCTCTCTCTGCTCTTG	2400
Query	2742	CTGGCGTTGCTCTACGGGCGATACGCACTGGACACGGAGGTGGCCGCTCGTGTGGCGGC	2801
Sbjct	2401	TTGGCGTTGCCCGAGCGGCGTACGCGCTGGACACGGAGGTGGCCGCTCGTGTGGCGGT	2460
Query	2802	GTTGTTCTTGTCGGGTAAATGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGC	2861
Sbjct	2461	GTTGTTCTGTCGGGTGATGGCGCTGACTCTGTGACCATATTACAAGCGCTATATCAGC	2520
Query	2862	TGTTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGG	2921
Sbjct	2521	TGTTGCTTGTGGTGGCTTCAGTATTTTCTGACCAGAGTGAAGCGCAACTGCACGTGTGG	2580
Query	2922	GTTccccccTCAACGTCCgggggggCGCGATGCCGTCATCTTACTCATGTGTG-TAGT	2980
Sbjct	2581	ATCCCCCCCCTCAACGTCCGAGGGGGGCGCGACGCCGTCATCTTACTCATGTGTGCT-GT	2639
Query	2981	ACACCCGACCCCTGGTATTTGACATCACCAAACTACTCTGGCCATCTTCGGACCCCTTTG	3040
Sbjct	2640	ACACCCGACTCTGGTATTTGACATCACCAAAATGCTGCTGGCCGCTTCGAGACCCCTTTG	2699
Query	3041	GATTCTTCAAGCCAGTTTGCTTAAAGTCCCTACTTCGTGCGCGTTCAGGCCCTTCTCCG	3100
Sbjct	2700	GATTCTTCAAGCCAGTTTGCTTAAAGTACCTACTTTGTGCGCGTTCAGGCCCTTCTCCG	2759
Query	3101	GATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTACGTGCAAAATGGCCATCATCA	3159
Sbjct	2760	GTTCTGCGCGTATAGCGCGGAAGATGATC-GGAGGCCATTACGTGCAAAATGGTCAATTA	2818
Query	3160	AGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGG	3219
Sbjct	2819	AGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTCACTCTCTTCGGGACTGGG	2878
Query	3220	CGCACAACGGCTTGCAGATCTGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCGGAATGG	3279
Sbjct	2879	CGCACAACGGCTTGCAGATCTGGCCGTGGCTGTAGAGCCAGTCGTCTTCTCCCAAATGG	2938
Query	3280	AGACCAAGCTCATACGTGGGGGGCAGATACGCCCGCGTGGCGTGACATCATCAACGGCT	3339
Sbjct	2939	AGACCAAGCTCATACGTGGGGGGCAGATACGCCCGCGTGGCGTGACATCATCAACGGCT	2998
Query	3340	TGCCCGTCTCTGCCCCGTAGGGGGCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCT	3399
Sbjct	2999	TGCGTGTCTCCGCCCGCAGGGGCCGGGAGATAGCTCGGGCCAGCCGATGGAATGGTCT	3058
Query	3400	CAAGGGGTGGAGGTTGCTGGCGCCCATACGGCGTAGCCAGCAGACGAGAGGCCCTCC	3459
Sbjct	3059	CCAAGGGGTGGAGGTTGCTGGCGCCCATACGGCGTAGCCAGCAGACGAGAGGCCCTCC	3118
Query	3460	TAGGGTGTATAATCACAGCCTGACTGGCCGGGACAAAACCAAGTGAGGGGTGAGGTCC	3519
Sbjct	3119	TAGGGTGTATAATCACAGCCTAAGTGGCCGGGACAAAACCAAGTGAGGGGTGAGGTCC	3178
Query	3520	AGATCGTGTCAACTGTACCCAAACCTTCTGGCAACGTGCATCAATGGGGTATGCTGGA	3579
Sbjct	3179	AGATTGTGTCAACTGTGCCCCAAACCTTCTGGCAACGTGCATCAATGGGGTGTGCTGGA	3238
Query	3580	CTGTCTACCAACGGGGCCGAACGAGGACCATCGCATCACCAAGGGTCTGTATCCAGA	3639
Sbjct	3239	CTGTCTACCAACGGGGCCGAACGAGGACCATCGCGTCACCAAGGGTCTGTATCCAGA	3298

Query	3640	TGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCAT	3699
Sbjct	3299	TGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCTCCGCAAGGTAGCCGCTCAT	3358
Query	3700	TGACACCCGTGACTCGGGCTCCTCGGACCTTACCTGGTCACGAGGCACGCCGATGTCA	3759
Sbjct	3359	TGACACCCGTGACTCGGGCTCCTCGGACCTTACCTGGTCACGAGGCACGCCGATGTCA	3418
Query	3760	TTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCGTCTTTCGCCCGGCCCAATTTCCT	3819
Sbjct	3419	TTCCCGTGCGCCGGCGGGGTGATAGCAGGGGCAGCCTGCTGTCGCCCGGCCCAATTTCCT	3478
Query	3820	ACTTGAAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTAT	3879
Sbjct	3479	ACTTGAAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCCGCGGGGCACGCCGTGGGCATAT	3538
Query	3880	TCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGA	3939
Sbjct	3539	TTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAGCGGTGGACTTTATCCCTGTGGAGA	3598
Query	3940	ACCTAGGGACAAACCATGAGATCCCCGGTGTTCACGGACAACCTCCTCTCCACAGCAGTGC	3999
Sbjct	3599	ACCTAGAGACAAACCATGAGGTCCCCGGTGTTCACGGATAACTCCTCTCCACAGTAGTGC	3658
Query	4000	CCCAGAGCTTCCAGGTGGCCCACTTCATGCTCCCAACCGGCAGCGGTAAAGACCAACAGG	4059
Sbjct	3659	CCCAGAGCTTCCAGGTGGCTCACTTCATGCTCCCAACAGGCAGCGGCAAAAGACCAACAGG	3718
Query	4060	TCCCGGCTGCGTACGCAGCCAGGGCTACAAGGTTGTGGTGTCAACCCCTCTGTGTGCTG	4119
Sbjct	3719	TCCCGGCTGCGTATGCAGCTCAGGGCTATAAGGTTGTAGTACTCAACCCCTCTGTGTGCTG	3778
Query	4120	CAACCGTGGGCTTTGGTGCTTACATGTCCAAGGCCATGGGGTGTATCCTAATACAGGA	4179
Sbjct	3779	CAACTGTGGGCTTTGGTGCTTACATGTCCAAGGCTCAATGGGATGCATCCTAATACAGGA	3838
Query	4180	CCGGGGTGAGAACAAATTACCACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCC	4239
Sbjct	3839	CCGGGGTGAGAACAAATTACCACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCC	3898
Query	4240	TTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATAAATTTGTGACGAGTGCCACT	4299
Sbjct	3899	TTGCCGACGGCGGGTGCTCGGGGGGCGCTTATGACATAATAAATTTGTGACGAGTGCCACT	3958
Query	4300	CCACGGATGCCACATCCATCTTTGGGCATCGGCACGTGCTTGTACCAAGCAGAGACTGCGG	4359
Sbjct	3959	CCACGGATGCCACATCCATCTTTGGGCATCGGCACGTGCTTGTACCAAGCAGAGACTGCGG	4018
Query	4360	GGGCGAGACTGGTGTGTGCTCGCCACTGTACCCCTCCGGGCTCCGTCAGTGTGCCCATC	4419
Sbjct	4019	GGGCGAGACTGGTGTGTGCTCGCCACCGCCACCCCTCCGGGCTCCGTCAGTGTGCCCATC	4078
Query	4420	CTAACATCGAGGAGGTGTCTGTGCCACCACCGGAGAGATCCCCCTTTTACGGCAAGGCTA	4479
Sbjct	4079	CCAACATCGAGGAGGTGTCTGTGCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTA	4138
Query	4480	TCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGT	4539
Sbjct	4139	TCCCCCTCGAAGTAATCAAGGGGGGGAAGACATCTCATCTTCTGTGATTCAAAGAAGAAGT	4198
Query	4540	GCGCAGAGCTCGCCGGAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCG	4599
Sbjct	4199	GCGAGAACTCGCCGCAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCG	4258
Query	4600	GTCTTGACGTGTCTGTATCCGACACGCGCATGTTGTGCTGTCGTGTCACCGATGCTC	4659
Sbjct	4259	GTCTTGACGTGTCCGTATCCGACACGCGCATGTTGTGCTGTCGTGTCACCGATGCTC	4318
Query	4660	TCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTC	4719
Sbjct	4319	TCATGACCGGTATACCGGCGACTTCGACTCGGTGATAGACTGCAATACGTGTGTCAACC	4378
Query	4720	AGACAGTCGATTTAGCCTTGACCTTACCTTTACCAATTGAGACAACACGCTCCCCAGG	4779
Sbjct	4379	AGACAGTCGATTTAGCCTTGACCTTACCTTTACCAATTGAGACAATACGCTCCCCAGG	4438

Query	4780	ATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATA	4839
Sbjct	4439	ATGCTGTCTCCCGCACTCAACGTCGGGCGAGGACTGGCAGGGGGAAGCCAGGCATCAACA	4498
Query	4840	GATTGTGGCACCGGGGAGCGCCCTCCGGCATGTTCTGACTCGTCCGTCCTCTGTGAGT	4899
Sbjct	4499	GATTGTGGCACCGGGGAGCGCCCTCCGGCATGTTCTGACTCGTCCGTCCTCTGTGAGT	4558
Query	4900	GCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTAC	4959
Sbjct	4559	GCTATGACGAGGCTGTGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTAC	4618
Query	4960	GAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGG	5019
Sbjct	4619	GAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGG	4678
Query	5020	GGGTCTTTACGGGCTTCACTCATATAGATGCCCACTTTTATCCAGACAAGCAGAGTG	5079
Sbjct	4679	GGGTCTTTACAGGCTTCACTCATATAGATGCCCACTTTTATCCAGACAAGCAGAGTG	4738
Query	5080	GGGAGAACTTTCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGAGCTCAAGCCC	5139
Sbjct	4739	GGGAGAACTTCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGAGCTCAAGCCC	4798
Query	5140	CTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTATGCCCTTAAACCCACCTCCATG	5199
Sbjct	4799	CTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTATGCCCTTAAAGCCACCTCCATG	4858
Query	5200	GGCCAAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCTTGACGCACC	5259
Sbjct	4859	GGCCAAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCTTGACGCACC	4918
Query	5260	CAATCACCAAATACATCATGACATGCATGTGCGCCGACCTTGGAGGTCGTACAGGACACT	5319
Sbjct	4919	CAGTCACCAAATACATCATGACATGCATGTGCGCCGACCTTGGAGGTCGTACAGGACACT	4978
Query	5320	GGTGCTCGTGTGGCGCGTCTTGGCTGCTGTGCGCGCATTTGCTGTCAACAGGCTGCG	5379
Sbjct	4979	GGTGCTCGTGTGGCGCGTCTTGGCTGCTGTGCGCGCATTTGCTGTCAACAGGCTGCG	5038
Query	5380	TGTCATAGTGGGAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGG	5439
Sbjct	5039	TGTCATAGTGGGAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGG	5098
Query	5440	TTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAG	5498
Sbjct	5099	TTCTCTACCAG-AGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAG	5157
Query	5499	CAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCG	5558
Sbjct	5158	CAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCG	5217
Query	5559	TCCCGCCATGACAGAGTTATACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTC	5618
Sbjct	5218	TCCCGTCAGGCAGAGTTATCGCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGACC	5277
Query	5619	TTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCA	5678
Sbjct	5278	TTCTGGGCGAAGCATATGTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCA	5337
Query	5679	ACGCTGCCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGC	5738
Sbjct	5338	ACGCTGCCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGC	5397
Query	5739	CCACTAACCACTGGCCAAACCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAG	5798
Sbjct	5398	CCACTAACCACTAGCCAAACCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAG	5457
Query	5799	CTCGCCGCCCGCCGCTACTGCGCTTTGTGGGTGCTGGCTAGCTGGCGCCGCCATC	5858
Sbjct	5458	CTCGCCGCCCGCCGCTACTGCGCTTTGTGGGTGCTGGCTAGCTGGCGCCGCCATC	5517
Query	5859	GGCAGCGTTGGACTGGGAAGGTCTCGTGGACATCTTGCAGGGTATGGCGCGGGCGTG	5918
Sbjct	5518	GGCAGTGTGGACTGGGAAGGTCTCTATAGACATCTTGCAGGGTATGGCGCGGGCGTG	5577

Query	5919	GCGGGAGCTCTTTGTAGCATTCAGATCATGAGCGGTGAGGTCCTCCACGAGGAGACCTG	5978
Sbjct	5578	GCGGGAGCTCTTTGTGGCATTCAAGATCATGAGCGGTGAGGTCCTCCACGAGGAGACCTG	5637
Query	5979	GTCATCTGCTGCGCGCCATCCTCTCGCCTGGAGCCCTTGTAGTGGGTGGTCTGCGGA	6038
Sbjct	5638	GTCATCTACTGCGCGCCATCCTCTCGCCTGGAGCCCTGTAGTGGGTGGTCTGTGCA	5697
Query	6039	GCAATACTGCGCCGGCAGCTTGGCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTA	6098
Sbjct	5698	GCAATACTGCGCGGGCAGCTTGGCCCGGGCGAGGGGGCAGTGAATGGATGAACCGGCTG	5757
Query	6099	ATAGCCTTCGCTCCCGGGGAACCATGTTTCCCCCAGCAGCTACGTGCCGGAGAGCGAT	6158
Sbjct	5758	ATAGCCTTCGCTCCCGGGGAACCATGTTTCCCCCAGCAGCTACGTGCCGGAGAGCGAT	5817
Query	6159	GCAGCGCGCCGGCTCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGA	6218
Sbjct	5818	GCAGTGCCTGGCTCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGA	5877
Query	6219	CTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGAC	6278
Sbjct	5878	CTGCACCAAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGAC	5937
Query	6279	ATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTC	6338
Sbjct	5938	ATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTC	5997
Query	6339	ATGCCACAACCTGCTGGGATTCCTTTTGTGCTCTGCGCAGCGGGGTATAGGGGGGTCTGG	6398
Sbjct	5998	ATGCCACAACCTGCTGGGATTCCTTTTGTGCTCTGCGCAGCGGGGTATAGGGGGGTCTGG	6057
Query	6399	CGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGT	6457
Sbjct	6058	CGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGT	6116
Query	6458	CAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGAC	6517
Sbjct	6117	CAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGAC	6176
Query	6518	GTTCCCCATTAAACGCCTACACCACGGGCCCCGTACTCCCCCTTCCTGCGCGCAACTATAA	6577
Sbjct	6177	CTTCCCCATTAAATGCCCTACACCACGGGCCCCGTACTCCCCCTTCCTGCGCGCAACTACAC	6236
Query	6578	GTTGCGCTGTGAGGGGTGTCTGCAGAGGAATACGTGGAGATAAGCGGGGTGGGGGACTT	6637
Sbjct	6237	GTTGCGCTGTGAGGGGTGTCTGCAGAGGAATATGTGGAGATAAGCGAGGTGGGGGACTT	6296
Query	6638	CCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGC	6696
Sbjct	6297	CCACTACGTGA-CGGGTATGACTACTGACAATCTTAAATGCCCGTGCCAGGTCCCATCGC	6355
Query	6697	CCGAATTTTTTCAGAAATTGACAGGGGTGCGCCTACACAGGTTTTCGCGCCCCCTTGAAGC	6756
Sbjct	6356	CCGAATTTTTTCAGAAATTGACAGGGGTGCGCCTACATAGGTTTTCGCGCCCCCTTGAAGC	6415
Query	6757	CCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCG	6816
Sbjct	6416	CCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCACGAATACCCGGTAGGGTTCG	6475
Query	6817	AATTACCTTGCAGAGCCGAACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCT	6876
Sbjct	6476	AATTACCTTGCAGAGCCGAACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCT	6535
Query	6877	CCCATATAACAGCAGAGGCGCGCGGAGAGGTGCGGAGAGGG-TCACCCCTTCTATG	6935
Sbjct	6536	CCCATATAACAGCAGAGGCGCGCGGAGAGGTGCGGAG-GGGATCACCCCTTCTGTG	6594
Query	6936	GCCAGCTCCTCGGCTAGCCAGCTGTGCGCTCCATCTCTCAAGGCAACTTGACCGCCAAC	6995
Sbjct	6595	GCCAGCTCCTCGGCTAGCCAGCTATCGCTCCATCTCTCAAGGCAACTTGACCGCTAAC	6654
Query	6996	CATGACTCCCTGACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGAGGAGATGGGC	7055
Sbjct	6655	CATGACTCCCTGATGCTGAGCTCATAGAGGCAACCTCCTATGAGGAGGAGAGATGGGC	6714

Query	7056	GGCAACATCACCAGGTTGAGTCAGAGAAACAAAGTGGTGATTCTGGACTCCTTCGATCCG	7115
Sbjct	6715	GGCAACATCACCAGGTTGAGTCAGAAAAACAAAGTGGTGATTCTGGACTCCTTCGATCCG	6774
Query	7116	CTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATCTCGCGAAGTCT	7175
Sbjct	6775	CTTGTGGCAGAGGAGGACGAGCGGGAGATCTCCGTACCCCGAGAAATCTCGCGAAGTCT	6834
Query	7176	CGGAGATTGCGCCCGGGCCCTGCCGCTCTGGGCGCGGCCGAGTACAACCCCGCTAGTA	7235
Sbjct	6835	CGGAGATTGCGCCAGGCGCTGCCGCTTGGGCGCGGCCGAGTATAACCCCGCTAGTG	6894
Query	7236	GAGACGTGGAAAAAGCCTGACTACGAACACCTGTGGTCCATGGCTGCCCGCTACCACCT	7295
Sbjct	6895	GAGACGTGGAAAAAGCCGACTACGAACACCTGTGGTCCATGGCTGTCGCTTCCACCT	6954
Query	7296	CCACGGTCCCCCTCTGTGCTCCGCTCCGAAAAAGCGTACGGTGGTCTCACCGAATCA	7355
Sbjct	6955	CCAAAGTCCCCCTCTGTGCTCCGCTCCGGAAGAAGCGGACGGTGGTCTCCTACTGAATCA	7014
Query	7356	ACCCATATCTACTGCCTTGGCCGAGCTTGCACCAAAAGTTTGGCAGCTCCTCAACTTCC	7415
Sbjct	7015	ACCCATATCTACTGCCTTGGCCGAGCTCGCCACCAAGAGCTTGGCAGCTCCTCAACTTCC	7074
Query	7416	GGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCCCCCCCTTCTGGCTG	7475
Sbjct	7075	GGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCCCCCCCTTCTGGCTG	7134
Query	7476	GACTCCGACGTGAGTCTTATTCTTCCATG	7535
Sbjct	7135	GACTCCGACGTGAGTCTTATTCTTCCATG	7194
Query	7536	GATCTACGCGACGGGTCATGGTCGACGGTCAGTAGTGGGCGGACACGGGAAGATGTCGTG	7595
Sbjct	7195	GATCTTAGCGACGGGTCATGGTCAACGGTCAGTAGTGAGGCCAACGCGGAGGATGTCGTG	7254
Query	7596	TGCTGCTCAAATGCTTATTCTTGACAGGCGCACTCGTACCACCGTGCCTGCGGGAAGAA	7655
Sbjct	7255	TGCTGCTCAAATGCTTACTCTTGACAGGCGCACTCGTACCACCGTGCCTGCGGGAAGAA	7314
Query	7656	CAAAAATGCCCCATCAACGCACCTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTAT	7715
Sbjct	7315	CAGAAATGCCCCATCAATGCACCTAAGCAACTCGTTGCTACGTACCACAATTTGGTGTAT	7374
Query	7716	TCCACCACCTACGCGAGTGCTTGCCAAAGGCAGAGAAGATCACATTGTACAGACTGC	7775
Sbjct	7375	TCCACCACCTACGCGAGTGCTTGCCAAAGGCAGAGAAGATCACATTGTACAGACTGC	7434
Query	7776	GTCTTGACAGGCATTACACGAGAGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGATG	7835
Sbjct	7435	GTCTTGACAGGCATTACACGAGAGTGCTCAAGGAGGTAAAGCAGCGGCGTCAAAGATG	7494
Query	7836	AAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACGCTGACGCCCCACATTAGCCAAA	7895
Sbjct	7495	AAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACGCTGACGCCCCACACTAGCCAAA	7554
Query	7896	TCCAAGTTTGGCTATGGGGCAAAAGACGTCCTTGCCATGCCAGAAAGGCCGTAGCCAC	7955
Sbjct	7555	TCCAAGTTTGGTATGGGGCAAAAGACGTCCTTGCCATGCCAGAAAGGCCGTAAACCCAC	7614
Query	7956	ATCAACTCCGTGTGGAAGACCTTCTGGAAGACAGTGTAACCAATAGACACTACCATC	8015
Sbjct	7615	ATCAACTCCGTGTGGAAGACCTTCTGGAAGACAATGTAAACCAATAGACACTACCATC	7674
Query	8016	ATGGCCAAGAACGAGTTTCTGCGTTACGCTGAGAAAGGGGGTCTGAAGCCAGCTCGT	8075
Sbjct	7675	ATGGCTAAGAACGAGTTTCTGCGTTACGCTGAGAAAGGGGGTCTGAAGCCAGCTCGT	7734
Query	8076	CTCATCGTGTTCCTCCGACCTGGGCGTGCCTGTGCGAGAAGATGGCCCTGTACGACGTG	8135
Sbjct	7735	CTCATCGTGTTCCTCCGATCTGGGCGTGCCTGTGCGAGAAGATGGCTTGTACGACGTG	7794
Query	8136	GTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGG	8194
Sbjct	7795	GTTA-CAAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGG	7853

Query	8195	ACAGCGGGTTGAATTCTCTGTCGAAGCGTGAAGTCCAAGAAGACCCCGATGGGGTTCTC	8254
Sbjct	7854	ACAGCGGGTTGAATTCTCTGTCGAAGCGTGAAGTCCAAGAAAACCCCAATGGGGTTCTC	7913
Query	8255	GTAATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGCATCCGTACGGAGGAGGC	8314
Sbjct	7914	GTAATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCGCATCCGTACGGAGGAGGC	7973
Query	8315	AATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGA	8374
Sbjct	7974	AATCTACCAATGTTGTGACCTCGACCCCCAAGCCCGCTGGCCATCAAGTCCCTCACCGA	8033
Query	8375	GAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAG	8434
Sbjct	8034	GAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAGAACTGCGGCTATCGCAG	8093
Query	8435	GTGCCGCGCAGCGCGGCTACTGACAACCTAGCTGTGGTAACACCCCTCACTTGCTACATCAA	8494
Sbjct	8094	GTGCCGCGCAGCGCGGCTACTGACAACCTAGCTGTGGTAACACCCCTCACTTGCTACATCAA	8153
Query	8495	GGCCCGGGCAGCCTGTGAGCCGCGAGGGCTCCAGGACTGCACCATGCTCGTGTGGGCA	8554
Sbjct	8154	GGCCCGGGCAGCCTGTGAGCCGCGAGGGCTCCAGGACTGCACCATGCTCGTGTGGGCA	8213
Query	8555	CGACTTAGTCGTTATCTGTGAAAGTGCGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGC	8614
Sbjct	8214	CGACTTAGTCGTTATCTGTGAAAGCGCGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGC	8273
Query	8615	CTTCACGGAGGCTATGACCAGGTACTCCGcccccccgggggaacccccACAACCAGAATA	8674
Sbjct	8274	CTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCTGGGGACCCCCACAACAGAAATA	8333
Query	8675	CGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCACTGCGCCACGACGGCGCTGG	8734
Sbjct	8334	CGACTTGGAGCTCATAACATCATGCTCCTCCAACGTGTCACTGCGCCACGACGGCGCTGG	8393
Query	8735	AAAGAGGGTCTACTACCTTACCCGTGACCCCTACAACCCCCCTCGCGAGAGCCGCTGGGA	8794
Sbjct	8394	AAAGAGGGTCTACTACCTACCCGTGACCCCTACAACCCCCCTCGCGAGAGCTGCTGGGA	8453
Query	8795	GACAGCAAGACACACTCCAGTCAATTCTCTGGCTAGGCAACATAATCATGTTTGGCCCCAC	8854
Sbjct	8454	GACAGCAAGACACACTCCAGTCAATTCTCTGGCTAGGCAACATAATCATGTTTGGCCCCAC	8513
Query	8855	ACTGTGGGCGAGGATGATAGTATGACCCATTCTTTAGCGTCCCATAGCCAGGGATCA	8914
Sbjct	8514	ACTGTGGGCGAGGATGATAGTATGACCCATTCTTTAGCGTCCCATAGCCAGGGATCA	8573
Query	8915	GCTTGAAACAGGCTCTTAACGTGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACTGGA	8974
Sbjct	8574	GCTTGAAACAGGCTCTGATTGCGAGATCTACGGGGCTGCTACTCCATAGAACCACTGGA	8633
Query	8975	TCTACCTCCAATCATTTCAAAGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTC	9034
Sbjct	8634	TCTACCTCCAATCATTTCAAAGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTC	8693
Query	9035	TCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAACCTGGGGTCCCGCCCTTGGC	9094
Sbjct	8694	TCCAGGTGAAATTAATAGGGTGGCCGCATGCCTCAGAAAACCTGGGGTACCGCCCTTGGC	8753
Query	9095	AGCTTGGAGACACCGGGCCCGGAGCGCTCCGCGCTAGGCTTCTGTGTCAGAGGAGGACGGG	9154
Sbjct	8754	AGCTTGGAGACACCGGGCCCGGAGCGCTCCGCGCTAGGCTTCTGTGTCAGAGGAGGACGGG	8813
Query	9155	TGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTACTCC	9214
Sbjct	8814	TGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTACTCC	8873
Query	9215	AATAGCGGCGCTGGCCGGCTGGACTTGTCCGGTTGGTTACAGGCTGGCTACAGCGGGGG	9274
Sbjct	8874	AATAGCGGCGCTGGCCAGCTGGACTTGTCCGGCTGGTTACAGGCTGGCTACAGCGGGGG	8933
Query	9275	AGACATTTATCAGAGCGTGTCTCATGCCGGGCCCGCTGGTTCTGGTTTTGGC	9327
Sbjct	8934	AGACATTTATCAGAGCGTGTCTCATGCCGGGCCCGCTGGAATCGTTTTGGC	8986

>gb|AR118703.1|AR118703 Sequence 88 from patent US 6150087
Length=8316

Score = 1.326e+04 bits (7179), Expect = 0.0
Identities = 7944/8323 (95%), Gaps = 14/8323 (0%)
Strand=Plus/Plus

Query	684	AGGTCGCGCAATTTGGGTAAGGTATCGATACCCCTTACGTGCGGCTTCGCCGACCTCATG	743
Sbjct	1	AGGTCGCGCAATTTGGGTAAGGTATCGATACCCCTTACGTGCGGCTTCGCCGACCTCATG	60
Query	744	GGGTACATACCGCTCGTCGCGCCCCCTTTGGAGGCGCTGCCAGGGCCCTGGCGCATGGC	803
Sbjct	61	GGGTACATACCGCTCGTCGCGCCCCCTTTGGAGGCGCTGCCAGGGCCCTGGCGCATGGC	120
Query	804	GTCGGGTTCTCGAAGACGCGTGAACATATGCAACAGGGAACCTTCTGGTGTCTTTTC	863
Sbjct	121	GTCGGGTTCTCGAAGACGCGTGAACATATGCAACAGGGAACCTTCTGGTGTCTTTTC	180
Query	864	TCATCTTCTCTTCTGGCCCTGCTCTCTTGCCTGACTGTGCCGCTTACGCTACCAAGTG	923
Sbjct	181	TCATCTTCTCTTCTGGCCCTGCTCTCTTGCCTGACTGTGCCGCTTACGCTACCAAGTG	240
Query	924	CGCAATTCCTCGGGGCTTTACCATGTACCAATGATTGCCCTAACTCGAGTATTGTGTAC	983
Sbjct	241	CGCACTCCACGGGGCTTTACCACTGCACCAATGATTGCCCTAACTCGAGTATTGTGTAC	300
Query	984	GAGGCGGCCGATGCCATCTGCACATCCGGGGTGTGCCCTTGCCTTCGCGAGGGTAAC	1043
Sbjct	301	GAGGCGGCCGATGCCATCTGCACATCCGGGGTGTGCCCTTGCCTTCGCGAGGGTAAC	360
Query	1044	GCCCTCGAGGTGTTGGGTGGCGGTGACCCCAACGGTGGCCACAGGACGGCAAACTCCCC	1103
Sbjct	361	GCCCTCGAGGTGTTGGGTGGCGGTGACCCCAACGGTGGCCACAGGACGGCAAACTCCCC	420
Query	1104	ACAACGACGCTTCGACGTATATCGATCTGCTTGTGCGGAGCGCCACCTCTGCTCGGCC	1163
Sbjct	421	GCGACGACGCTTCGACGTATATCGATCTGCTTGTGCGGAGCGCCACCTCTGCTCGGCC	480
Query	1164	CTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTGTGGTCAACTGTTTACCTTCTCT	1223
Sbjct	481	CTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTGTGCGGCAACTGTTTACCTTCTCT	540
Query	1224	CCCAGCGCCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGGCCATATAACG	1283
Sbjct	541	CCCAGCGCCCACTGGACGACGCAAGGTTGCAATTGCTCTATCTATCCCGGCCATATAACG	600
Query	1284	GGTCATCGCATGGCATGGGATATGATGATGAACGGTGGTCCCTACGGCAGCGTTGGTGGTA	1343
Sbjct	601	GGTCACGCAATGGCATGGGATATGATGATGAACGGTGGTCCCTACGACGCGGTGGTAATG	660
Query	1344	GCTCAGCTGCTCCGGATCCCAAGCCATCATGGACATGATCGTGGTGCTCACTGGGGA	1403
Sbjct	661	GCTCAGCTGCTCCGGATCCCAAGCCATCTTGAACATGATCGTGGTGCTCACTGGGGA	720
Query	1404	GTCCCTGGCGGGCATAGCGTATTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGTG	1463
Sbjct	721	GTCCCTGGCGGGCATAGCGTATTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGTG	780
Query	1464	CTGCTGCTATTGTCGGGCGTCGACGCGGAAACCCACGTCACGGGGGAAATGCCGCGCG	1523
Sbjct	781	CTGCTGCTATTGTCGGGCGTCGACGCGGAAACCCACGTCACGGGGGAAATGCCGCGCG	840
Query	1524	ACCAGGGCTGGGCTTGTGGTCTCCTTACACGAGGCGCAAGCAGAACATCCAAGTATC	1583
Sbjct	841	ACTGTGCTCGGATTGTTAGCTCCTCGACACGAGCGCAAGCAGAACGTCAGCTGATC	900
Query	1584	AACACCAACGGCAGTTGGCAGATCAATAGCAGGCGCTTGAATTGCAATGAAAGCCTTAAC	1643
Sbjct	901	AACACCAACGGCAGTTGGCAGCTCAATAGCAGGCGCTTGAATGCAATGATAGCCTTAAC	960
Query	1644	ACCGGCTGGTTAGCAGGGCTCTTCTATCAACAAAATTCAACTCTTCAGGCTGTCTGAG	1703
Sbjct	961	ACCGGCTGGTTAGCAGGGCTTTCTATCAACCAAGTTCAACTCTTCAGGCTGTCTGAG	1020

Query	1704	AGGTTGGCCAGCTGCCGACGCGCTTACCGATT	1763
Sbjct	1021	AGGCTAGCCAGCTGCCGACCCCTTACCGATT	1080
Query	1764	GCCAAACGGAAGCGGCTCGACGAAGCGCCCTACTGCTGGCACTACCCCTCAAGACCTTGT	1823
Sbjct	1081	GCCAAACGGAAGCGGCGCCGACGAGCGCCCTACTGCTGGCACTACCCCAAAAACCTTGC	1140
Query	1824	GGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCAGCCCGTG	1883
Sbjct	1141	GGTATTGTGCCCGCGAAGAGTGTGTGTGCTCCGGTATATTGCTTCACTCCAGCCCGTG	1200
Query	1884	GTGGTGGGAACGACCCGACAGGTGCGGCGCGCTACCTACAGCTGGGGTGCAAAATGATACG	1943
Sbjct	1201	GTGGTGGGAACGACCCGACAGGTGCGGCGCGCCACCTACAGCTGGGGTGAAAAATGATACG	1260
Query	1944	GATGCTTTCGTCCTTAACAACACAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTGG	2003
Sbjct	1261	GACGCTTTCGTCCTTAACAATACAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTGG	1320
Query	2004	ATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGCCCTTGTGTGATCGAGGGGGTG	2063
Sbjct	1321	ATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGCTTGTGTGATCGAGGGGGTG	1380
Query	2064	GGCAACAACACCTTGCTCTGCCCACTGATTGCTTCCGCAAAATCCGGAAGCCACATAC	2123
Sbjct	1381	GGCAACAACACCTTGCACTGCCCACTGATTGCTTCCGCAAGATCCGGAGCCACATAC	1440
Query	2124	TCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGTCGACTACCCGTATAGG	2183
Sbjct	1441	TCTCGGTGCGGCTCCGGTCCCTGGATACACCCAGGTGCCTGTCGACTACCCGTATAGG	1500
Query	2184	CTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGGA	2243
Sbjct	1501	CTTTGGCATATCCTTGTACCATCAACTACACCATATTTAAATACAGATGTACGTGGGA	1560
Query	2244	GGGTCGAGCACAGGCTGGAAGCGGCTGCAACTGGACGCGGGGCGAAGCGTGTGATCTG	2303
Sbjct	1561	GGGTCGAGCACAGGCTGGAAGCTGCTGCAACTGGACGCGGGGCGAAGCTGTGATCTG	1620
Query	2304	GAAGACAGGGACAGGTCCGAGCTCAGCCGTTGCTGCTGCCACACACAGTGGCAGGTC	2363
Sbjct	1621	GAAGACAGGGACAGGTCCGAGCTCAGCCGTTACTGCTGACCACTACACAGTGGCAGGTC	1680
Query	2364	CTTCGGTGTCTTTACAGACCTGCCAGCCTTGTCACCGGCTCATCCACCTCCACCAG	2423
Sbjct	1681	CTCCCGTGTCTCTTACAAACCTTACCAGCCTTGTCACCGGCTCATCCACCTCCACCAG	1740
Query	2424	AACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCTCCTGGGCCATT	2483
Sbjct	1741	AACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCTCCTGGGCCATT	1800
Query	2484	AAGTGGGAGTACGTCGTTCTCTGTTCTTCTGCTTGACAGACGCGCGGTCTGCTCCTGC	2543
Sbjct	1801	AAGTGGGAGTACGTCGTTCTCTGTTCTTCTGCTTGACAGACGCGCGGTCTGCTCCTGC	1860
Query	2544	TTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACTC	2603
Sbjct	1861	TTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACTC	1920
Query	2604	AATGACAGCATCCTTGCCGCGGACGACGGTCTTGTCCTTCTCGTGTCTTCTGCTTT	2663
Sbjct	1921	AATGACAGCATCCTTGCCGCGGACGACGGTCTTGATACCTTCTCGTGTCTTCTGCTTT	1980
Query	2664	CGCTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGCTTACGCCCTTACGGGATGTGG	2723
Sbjct	1981	GCATGGTATTGAAGGGTAGGTGGGTGCCCGGAGCGGCTTACACCTTACGGGATGTGG	2040
Query	2724	CCTCTCCTCTGCTCTGCTGGCGTTGCGCTCAGCGGGCATACGACTGGACACGGAGGTG	2783
Sbjct	2041	CCTCTCCTCTGCTCTGTTGGCGTTGCCCGAGCGGCGTACGCGTGGACACGGAGGTG	2100
Query	2784	GCCGCGTCGTGTGGCGGCTTGTCTTGTGCGGGTAAATGGCGCTGACTCTGTCGCCATAT	2843
Sbjct	2101	GCCGCGTCGTGTGGCGGCTTGTCTTGTGCGGGTGTATGGCGCTGACTCTGTCACCATAT	2160

Query	2844	TACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTCTGACCAGAGTAGAA	2903
Sbjct	2161	TACAAGCGCTATATCAGCTGGTGCCTTGTGGTGGCTTCAGTATTTCTGACCAGAGTGGAA	2220
Query	2904	GCACAACTGCACGTGTGGGTTCACCGCTCCGCGGAGGCGCGATGCCGCTATC	2963
Sbjct	2221	GCACAACTGCACGTGTGGATTCCCCCCTCAACGTCGAGGGGGGCGGAGCGCGCTATC	2280
Query	2964	TTACTCATGTGTG-TAGTACACCCGACCTGGTATTTGACATCACCAACTACTCTGTGC	3022
Sbjct	2281	TTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAATTGCTGTGTGC	2339
Query	3023	CATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCTACTTCGTGCG	3082
Sbjct	2340	CGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCTACTTCGTGCG	2399
Query	3083	CGTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTTCATTACG	3141
Sbjct	2400	CGTCAAGGCCCTTCTCCGGTCTGCGCGTATAGCGCGGAAGATGATC-GGAGGCCATTACG	2458
Query	3142	TGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCATATGTGTATAACCATCTCA	3201
Sbjct	2459	TGCAAAATGGTTCATTAAGTTAGGGGCGCTTACTGGCACCATATGTTTATAACCATCTCA	2518
Query	3202	CCCCCTTCGAGACTGGGCGCACACAGGCTGCGAGATCTGGCCGTGGCTGTGGAACCAAG	3261
Sbjct	2519	CTCCTCTTCGGGACTGGGCGCACACAGGCTGCGAGATCTGGCCGTGGCTGTAGAGCCAG	2578
Query	3262	TCGTCTTCTCCGAATGGAGACCAAGCTCATCAGTGGGGGGCAGATACCCGCCGCTGCG	3321
Sbjct	2579	TGCTCTTCTCCGAATGGAGACCAAGCTCATCAGTGGGGGGCAGATACCCGCCGCTGCG	2638
Query	3322	GTGACATCATCAACGGCTTGCCGCTCTGCCCCGTAGGGGCGAGAGATACGCTTGGGC	3381
Sbjct	2639	GTGACATCATCAACGGCTTGCTGTTTCCGCCCGCAGGGGCGGGAGATACGCTCGGGC	2698
Query	3382	CAGCCGACGGAATGGTCTCCAAGGGGTGGAGTTGCTGGCGCCCATCAGCGCGTAGCGCC	3441
Sbjct	2699	CAGCCGATGGAATGGTCTCCAAGGGGTGGAGTTGCTGGCGCCCATCAGCGCGTAGCGCC	2758
Query	3442	AGCAGACGAGAGGCTCTTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACC	3501
Sbjct	2759	AGCAGACAGGGGCTCTTAGGGTGTATAATCACCAGCCTAATGGCCGGGACAAAAACC	2818
Query	3502	AAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCCAAACCTTCTGGCAACGTGCA	3561
Sbjct	2819	AAGTGGAGGGTGAAGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCTGGCAACGTGCA	2878
Query	3562	TCAATGGGGTATGCTGGACTGTCTACCACGGGGCGGAACGAGGACCATCGCATCACCAC	3621
Sbjct	2879	TCAATGGGGTGTGCTGGACTGTCTACCACGGGGCGGAACGAGGACCATCGCGTCACCAC	2938
Query	3622	AGGGTCTGTATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTC	3681
Sbjct	2939	AGGGTCTGTATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCTC	2998
Query	3682	CTCAAGGTTCCCGCTCATTGACACCCGTGACCTGCGGCTCCTCGGACCTTTACTGGTCA	3741
Sbjct	2999	CGCAGGTTAGCCGCTCATTGACACCCGTGCACTTGGGCTCCTCGGACCTTTACTGGTCA	3058
Query	3742	CGAGGCACCCGATGTCACTCCCGTGCCTGGCGGAGGTATAGCAGGGGTAGCCGTCTT	3801
Sbjct	3059	CGAGGCACCCGATGTCACTCCCGTGCCTGGCGGAGGTATAGCAGGGGCAGCCGTCTGT	3118
Query	3802	CGCCCGGGCCATTTCCTACTTGAAGGCTCCTCGGGGGGTCCGCTGTGTGCCCCGCGG	3861
Sbjct	3119	CGCCCGGGCCATTTCCTACTTGAAGGCTCCTCGGGGGGTCCGCTGTGTGCCCCGCGG	3178
Query	3862	GACACGCGTGGGCTATTACGGGCGCGGTGTGACCCGTGGAGTGGCTAAAGCGGTGG	3921
Sbjct	3179	GGCACGCGTGGGCATATTAGGGCGCGGTGTGACCCGTGGAGTGGCTAAAGCGGTGG	3238
Query	3922	ACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3981
Sbjct	3239	ACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCTGTTCACGGATAACT	3298

Query	3982	CCTCTCCACCAGCAGTGC	CCCCAGAGCTTC	CAGGTGGCCACCTGC	ATGCTCCCACCGGCA	4041
Sbjct	3299	CCTCTCCACCAGTAGTGC	CCCCAGAGCTTC	CAGGTGGCTCACCTCC	ATGCTCCCACAGGCA	3358
Query	4042	CGGGTAAGAGCACC	AAGTCCCGGCTGCGT	ACGCAGCCAGGGCTAC	AAGTGTGGTGC	4101
Sbjct	3359	CGGGCAAAAGCACC	AAGTCCCGGCTGCAT	ATGCAGCTCAGGGCTAT	AAGTGTAGTATC	3418
Query	4102	TCAACCCCTCTGTTGCT	GCAACGCTGGGCTTT	TGGTGCTTACATGTCC	AAGGCCATGGGG	4161
Sbjct	3419	TCAACCCCTCTGTTGCT	GCAACACTGGGCTTT	TGGTGCTTACATGTCC	AAGGCTCATGGGA	3478
Query	4162	TTGATCCTAATATCAGG	ACCGGGGTGAGAACAA	TACCCTGGCAGCCCCAT	CACGTACT	4221
Sbjct	3479	TCGATCCTAATATCAGG	ACCGGGGTGAGAACAA	TACCCTGGCAGCCCCAT	CACGTACT	3538
Query	4222	CCACCTACGGCAAGTTC	CTTGCCGACGGCGGGT	GCCTCAGGAGGTGCTT	ATGACATAATAA	4281
Sbjct	3539	CCACCTACGGCAAGTTC	CTTGCCGACGGCGGGT	GCCTCAGGAGGTGCTT	ATGACATAATAA	3598
Query	4282	TTGTGACGAGTGCCACT	CCACGGATGCCACATCC	ATCTTGGGCATCGGCACT	GTCCCTTG	4341
Sbjct	3599	TTGTGACGAGTGCCACT	CCACGGATGCCACATCC	ATCTTGGGCATCGGCACT	GTCCCTTG	3658
Query	4342	ACCAAGCAGAGACTGCG	GGGGCGGAGACTGGT	TGTGCTCGCCACTGCT	ACCCTCCGGGCT	4401
Sbjct	3659	ACCAAGCAGAGACTGCG	GGGGCGGAGACTGGT	TGTGCTCGCCACCGCC	ACCCTCCGGGCT	3718
Query	4402	CCGTCACTGTGTCCCAT	CTAACATCGAGGAGGT	TGCTCTGTCCACCACCG	GAGAGATCC	4461
Sbjct	3719	CCGTCACTGTGTCCCAT	CTAACATCGAGGAGGT	TGCTCTGTCCACCACCG	GAGAGATCC	3778
Query	4462	CTTTTACGGCAAGGCTAT	CCCCCTCGAGGTGATCA	AGGGGGAAGACATCTCA	TCTTCT	4521
Sbjct	3779	CTTTTACGGCAAGGCTAT	CCCCCTCGAAGTAATCA	AGGGGGAAGACATCTCA	TCTTCT	3838
Query	4522	GCCACTCAAAGAAGAAGT	GCGACGAGCTCGCCGCA	AGGCTGGTCGATTGGGC	ATCAATG	4581
Sbjct	3839	GTCATTCAAAGAAGAAGT	GCGACGAACCTCGCCGCA	AGGCTGGTCGATTGGGC	ATCAATG	3898
Query	4582	CCGTGGCCTACTACCGG	GCTTTGACGTGTCTGTC	ATCCCGACGAGCGCGCAT	GTGTGTG	4641
Sbjct	3899	CCGTGGCCTACTACCGG	GCTTTGACGTGTCCGT	CATCCCGACGAGCGCGCAT	GTGTGTG	3958
Query	4642	TCGTGTCGACCGATGCT	CTCATGACTGGCTTTAC	CGGCGACTTCGACTCTG	TGATAGACT	4701
Sbjct	3959	TCGTGGCAACCGATGCC	CTCATGACCGGCTATAC	CGGCGACTTCGACTCGT	GATAGACT	4018
Query	4702	GCAACACGTTGTGTCACT	CAGACAGTCGATTTCAG	CCTTGACCCCTACCTTT	ACCATTGAGA	4761
Sbjct	4019	GCAATACGTTGTGTCACT	CAGACAGTCGATTTCAG	CCTTGACCCCTACCTTT	ACCATTGAGA	4078
Query	4762	CAACCACGCTCCCCAGG	ATGCTGTCTCCAGGACTCA	ACGCCGGGGCAGGACTGG	CAGGG	4821
Sbjct	4079	CAATCACGCTCCCCAGG	ATGCTGTCTCCGCACTCA	ACGTCGGGGCAGGACTGG	CAGGG	4138
Query	4822	GGAAGCCAGGCATCTAT	AGATTGTGGCACCGGGG	GAGCGCCCTCCGGCATGT	TCGACT	4881
Sbjct	4139	GGAAGCCAGGCATCTAT	AGATTGTGGCACCGGGG	GAGCGCCCTCCGGCATGT	TCGACT	4198
Query	4882	CGTCGCTCTCTGTGAGT	GCTATGACGCGGGCTGT	GCTTGGTATGAGCTACG	CCCGCCG	4941
Sbjct	4199	CGTCGCTCTCTGTGAGT	GCTATGACGCGGGCTGT	GCTTGGTATGAGCTACG	CCCGCCG	4258
Query	4942	AGACTACAGTTAAGCTAC	GAGCGTACATGAACACCC	CGGGGCTTCCCGTGTGC	CAGGACC	5001
Sbjct	4259	AGACTACAGTTAAGCTAC	GAGCGTACATGAACACCC	CGGGGCTTCCCGTGTGC	CAGGACC	4318
Query	5002	ATCTTGAATTTTGGGAGG	CGCTCTTTACGGGCTCACT	CATATAGATGCCACTTTT	TAT	5061
Sbjct	4319	ATCTTGAATTTTGGGAGG	CGCTCTTTACAGGCTCACT	CATATAGATGCCACTTTT	CTAT	4378
Query	5062	CCCAGACAAAGCAGAGT	GGGGAGAACTTTCCTTAC	CTGGTAGCGTACCAAGCC	ACCGTGT	5121
Sbjct	4379	CCCAGACAAAGCAGAGT	GGGGAGAACTTTCCTTAC	CTGGTAGCGTACCAAGCC	ACCGTGT	4438

Query	5122	CGCGTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTGATCCGCC	5181
Sbjct	4439	CGCGTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTGATCCGCC	4498
Query	5182	TTAAACCCACCCCTCCATGGGCCAACACCCTGCTATACAGACTGGGCGCTGTTGAGAATG	5241
Sbjct	4499	TCAAGCCACCCCTCCATGGGCCAACACCCTGCTATACAGACTGGGCGCTGTTGAGAATG	4558
Query	5242	AAGTCACCTGACGCACCCAATCACCAAATACATCATGACATGCATGTCGGCCGACCTGG	5301
Sbjct	4559	AAATCACCTGACGCACCCAGTCACCAAAATACATCATGACATGCATGTCGGCCGACCTGG	4618
Query	5302	AGGTCGTACAGCAGCAGCTGGGTGCTCGTTGGCGGCGTCTGGTGTCTGCGCCGCTATT	5361
Sbjct	4619	AGGTCGTACAGCAGCAGCTGGGTGCTCGTTGGCGGCGTCTGGTGTCTGCGCCGCTATT	4678
Query	5362	GCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGCTTTGTCGGGAAGCCGGCAA	5421
Sbjct	4679	GCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGCTTTGTCGGGAAGCCGGCAA	4738
Query	5422	TTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCAG	5480
Sbjct	4739	TCATACCTGACAGGGAGTCCCTCTACCAGAG-AGTTTCGATGAGATGGAAGAGTGCTCTCAG	4797
Query	5481	CACCTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTC	5540
Sbjct	4798	CACCTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCTC	4857
Query	5541	GGCCTCTTCGAGACCGCGTCCCGCCATGCAGAGGTTATCACCCTGCTGTCCAGACCAAC	5600
Sbjct	4858	GGCCTCTTCGAGACCGCGTCCCGCTCAGGCAGAGGTTATCACCCTGCTGTCCAGACCAAC	4917
Query	5601	TGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAAATTCATCAGTGGGATACAA	5660
Sbjct	4918	TGGCAAAACTCGAGACCTTCTGGGCGAAGCATATGTGGAAATTCATCAGTGGGATACAA	4977
Query	5661	TACTTGGCGGGCGCTGTCAACGCTGCCTGGTAACCCCGCCATGCTTCATTGATGGCTTTT	5720
Sbjct	4978	TACTTGGCGGGCGCTGTCAACGCTGCCTGGTAACCCCGCCATGCTTCATTGATGGCTTTT	5037
Query	5721	ACAGCTGCCGTCACCAAGCCCTAACCCTAGGCCAAACCCCTCCTCTTCAACATATTGGGG	5780
Sbjct	5038	ACAGCTGCTGTCAACAGCCCTAACCCTAGGCCAAACCCCTCCTCTTCAACATATTGGGG	5097
Query	5781	GGGTGGGTGGCTGCCAGCTCGCCGCCCGGCTGCCGCTACTGCCCTTTGTGGGTGCTGGC	5840
Sbjct	5098	GGGTGGGTGGCTGCCAGCTCGCCGCCCGGCTGCCGCTACTGCCCTTTGTGGGTGCTGGC	5157
Query	5841	CTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTTCTGCA	5900
Sbjct	5158	TTAGCTGGCGCCGCCATCGGCAGTGTGGACTGGGGAAGGTCCTCATAGACATCCTTGA	5217
Query	5901	GGGTATGGCGCGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTC	5960
Sbjct	5218	GGGTATGGCGCGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGTC	5277
Query	5961	CCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGTA	6020
Sbjct	5278	CCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCTGGAGCCCTTGTA	5337
Query	6021	GTCGGTGTGGTCTGCGCAGCAATACTGCGCGGCACGTGGCCCGGGCGAGGGGGCAGTG	6080
Sbjct	5338	GTCGCGTGGTCTGTGACGCAATACTGCGCGGCACGTGGCCCGGGCGAGGGGGCAGTG	5397
Query	6081	CAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCACGCAC	6140
Sbjct	5398	CAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCACGCAC	5457
Query	6141	TACGTGCCGGAGAGCGATGCAGCCGCCCGCTCATGCCATACTCAGCAGCCTCACTGTA	6200
Sbjct	5458	TACGTGCCGGAGAGCGATGCAGCTGCCCGGCTCATGCCATACTCAGCAGCCTCACTGTA	5517
Query	6201	ACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACCTCCATGCTCC	6260
Sbjct	5518	ACCCAGCTCCTGAGGCGACTGCACCAAGTGGATAAGCTCGGAGTGTACCACCTCCATGCTCC	5577

Query	6261	GGTTCCTGGCTAAGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACC	6320
Sbjct	5578	GGTTCCTGGCTAAGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGACC	5637
Query	6321	TGGCTGAAAGCCAAGCTCATGCCACAACGCTGGGATTCCTTTGTGTCTGCCAGCGC	6380
Sbjct	5638	TGGCTAAAGAGCTAAGCTCATGCCACAGCTGCCTGGGATTCCTTTGTGTCTGCCAGCGC	5697
Query	6381	GGGTATAGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAGC	6439
Sbjct	5698	GGGTATAGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAGC	5756
Query	6440	TGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTCCTAGGACCTGCAG	6499
Sbjct	5757	TGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTCCTAGGACCTGCAG	5816
Query	6500	GAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTACACCACGGGCCCTGTACTCCCT	6559
Sbjct	5817	GAACATGTGGAGTGGGACCTTCCCCATTAAATGCCTACACCACGGGCCCTGTACTCCCT	5876
Query	6560	TCTGCGCCGCAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGAT	6619
Sbjct	5877	TCTGCGCCGCAACTACACGTTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGAT	5936
Query	6620	AAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGCC	6678
Sbjct	5937	AAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGCC	5995
Query	6679	CGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGACGGGGTGGCCTACACAGGT	6738
Sbjct	5996	CGTGCCAGGTCCCATCGCCGAATTTTTCACAGAATTGGACGGGGTGGCCTACATAGGT	6055
Query	6739	TTGCGCCCCCTTGCACGCCCTTGTGTCGGGAGGAGGTATCAITTCAGAGTAGGACTCCAG	6798
Sbjct	6056	TTGCGCCCCCTTGCACGCCCTTGTGTCGGGAGGAGGTATCAITTCAGAGTAGGACTCCAG	6115
Query	6799	AGTACCCGGTGGGGTTCGAATTACCTTTCGAGAGCCGCAACCGGACGTAGCCGTGTGACGT	6858
Sbjct	6116	AATACCCGGTAGGGTTCGAATTACCTTTCGAGAGCCGCAACCGGACGTAGCCGTGTGACGT	6175
Query	6859	CCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAGGTTGGCGAGAG	6918
Sbjct	6176	CCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAGGTTGGCGAG-G	6234
Query	6919	GG-TCACCCCTTCTATGGCCAGCTCCTTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAG	6977
Sbjct	6235	GGATCACCCCCCTCTGTGGCCAGCTCCTTCGGCTAGCCAGCTATCCGCTCCATCTCTCAAG	6294
Query	6978	GCAACTTGCACCCGCCAACCATGACTTCCCTTGACGCCGAGCTCATAGAGGCTAACCTCCTG	7037
Sbjct	6295	GCAACTTGCACCCGCTAACCATGACTTCCCTTGATGCTGAGCTCATAGAGGCTAACCTCCTA	6354
Query	7038	TGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAAACAAAGTGGTGATT	7097
Sbjct	6355	TGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAAACAAAGTGGTGATT	6414
Query	7098	CTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGCA	7157
Sbjct	6415	CTGGACTCCTTCGATCCGCTTGTGGGAGGAGGAGGACGAGCGGAGATCTCCGTACCCGCA	6474
Query	7158	GAAATTCGCGGGAAGTCTCGGAGATTGCGCCGGGCCCTGCGGCTTGGGCGCGGCCGAG	7217
Sbjct	6475	GAAATCCTGCGGGAAGTCTCGGAGATTGCGCCAGGCCCTGCGGCTTGGGCGCGGCCGAG	6534
Query	7218	TACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACACCTGTGGTCCAT	7277
Sbjct	6535	TATAACCCCCCGCTAGTAGGAGACGTGGAAAAAGCCCGACTACGAACACCTGTGGTCCAT	6594
Query	7278	GGCTGCCCGCTACCACTCCACGGTCCCTCCTGTGCTCCGCTTCGAAAAAGCGTACG	7337
Sbjct	6595	GGCTGTCCGCTTCCACCTCCAAAGTCCCTCCTGTGCTCCGCTTCGAAAGAGCGGAGC	6654
Query	7338	GTGGTCTCTACCGAATCAACCTTATCTACTGCTTGGCCGAGCTTGCCACCAAAAGTTTT	7397
Sbjct	6655	GTGGTCTCTACTGAATCAACCTTATCTACTGCTTGGCCGAGCTGCACACAGAAAGCTTT	6714

Query	7398	GGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGCC	7457
Sbjct	6715	GGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGCC	6774
Query	7458	CCTTCTGGCTG GGGGGGGG GACTCCGACGTTGAGTCCTATTCTTCATG GGGGGGGG TGGAG	7517
Sbjct	6775	CCTTCTGGCTGCCCGCCGACTCCGACGCTGAGTCCTATTCTTCATGCCCGCCCTGGAG	6834
Query	7518	GGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGGTCGACGGTCAGTAGTGGGGCC	7577
Sbjct	6835	GGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTATGGTCAACGGTCAGTAGTGAGGCC	6894
Query	7578	GACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGGACAGGCGCACTCGTCACC	7637
Sbjct	6895	AACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACTCTTGGACAGGCGCACTCGTCACC	6954
Query	7638	CCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACCTGAGCAACTCGTTGCTACGC	7697
Sbjct	6955	CCGTGCGCCGCGGAAGAACAAAACTGCCCATCAATGCACTAAGCAACTCGTTGCTACGT	7014
Query	7698	CATCACAAATCTGGTGTAATTCACCACCTTACGCGAGTGCTTGCCAAAGGCAGAAGAAAGTC	7757
Sbjct	7015	CACCACAATTTGGTGTAATTCACCACCTTACGCGAGTGCTTGCCAAAGGCAGAAGAAAGTC	7074
Query	7758	ACATTTGACAGACTGCAAGTTCTTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAAA	7817
Sbjct	7075	ACATTTGACAGACTGCAAGTTCTTGGACAGCCATTACCAGGACGTACTCAAGGAGGTTAAA	7134
Query	7818	GCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCGAGCCTGACG	7877
Sbjct	7135	GCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCGAGCCTGACG	7194
Query	7878	CCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGCC	7937
Sbjct	7195	CCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGGCAAAAGACGTCCGTTGCCATGCC	7254
Query	7938	AGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTCTGGAAGACAGTGAACAA	7997
Sbjct	7255	AGAAAGGCCGTATCCACATCAACTCCGTGTGGAAGACCTTCTGGAAGACAAATGAACAA	7314
Query	7998	CCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTTACGCTGAGAAAGGG	8057
Sbjct	7315	CCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTTACGCTGAGAAAGGG	7374
Query	8058	GGTCGTAAGCCAGCTCGTCTCATCTGTGTCCCGACCTGGGCGTGCGCGTGTGCGAGAAG	8117
Sbjct	7375	GGTCGTAAGCCAGCTCGTCTCATCTGTGTCCCGCATCTGGGCGTGCGCGTGTGCGAAAAG	7434
Query	8118	ATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACGG	8176
Sbjct	7435	ATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCTTGGCCGTGATGGGAAGCTCCTACGG	7493
Query	8177	ATTCCAATACTACACAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAAGTCCAAGAA	8236
Sbjct	7494	ATTCCAATACTACACAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAAGTCCAAGAA	7553
Query	8237	GACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGA	8296
Sbjct	7554	AACCCCAATAGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCGA	7613
Query	8297	CATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCAAGCCCGCGTGGC	8356
Sbjct	7614	CATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTCGACCCCAAGCCCGCGTGGC	7673
Query	8357	CATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGCCCTCTTACCAATTCAGGGGGGA	8416
Sbjct	7674	CATCAAGTCCCTCACGAGAGGCTTTATGTTGGGGCCCTCTTACCAATTCAGGGGGGA	7733
Query	8417	AAACTGCGGCTACCGCAGGTGCCGCGGAGCGGCGTACTGACAACCTAGCTGTGGTAACAC	8476
Sbjct	7734	GAACTGCGGCTATCGCAGGTGCCGCGGAGCGGCGTACTGACAACCTAGCTGTGGTAACAC	7793
Query	8477	CCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGCGAGCCGAGGGCTCCAGGACTGCAC	8536
Sbjct	7794	CCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGCGAGCCGAGGGCTCCAGGACTGCAC	7853

Query	8537	CATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTCCGGGGTCCAGGAGGA	8596
Sbjct	7854	CATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTCCGGGGTCCAGGAGGA	7913
Query	8597	CGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAAGTACTCCGccccccgggga	8656
Sbjct	7914	CGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAAGTACTCCGCCCCCTGGGGA	7973
Query	8657	ccccccACAACCCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAGT	8716
Sbjct	7974	CCCCCACAACCCAGAATACGACTTGGAGCTATAACATCATGCTCCTCCAACGTGTCAGT	8033
Query	8717	CGCCACGACGCGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCCTACAACCCCCCT	8776
Sbjct	8034	CGCCACGACGCGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCCTACAACCCCCCT	8093
Query	8777	CGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTCAATTCTTGGCTAGGCAACAT	8836
Sbjct	8094	CGCGAGAGCTGCTGGGAGACAGCAAGACACACTCCAGTCAATTCTTGGCTAGGCAACAT	8153
Query	8837	AATCATGTTTGGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTCTTTAGCGT	8896
Sbjct	8154	AATCATGTTTGGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTCTTTAGCGT	8213
Query	8897	CCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGTGAGATCTACGGAGCCTGCTA	8956
Sbjct	8214	CCTTATAGCCAGGGACAGCTTGAACAGGCCCTCGATTGGCGAGTCTACGGGGCCTGCTA	8273
Query	8957	CTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTC	8999
Sbjct	8274	CTCCATAGAACCACTTGATCTACCTCCAATCATTCAAAGACTC	8316

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Length=9611

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.310e+04 bits (7095), Expect = 0.0
Identities = 7616/7855 (96%), Gaps = 86/7855 (1%)
Strand=Plus/Plus

Query	1791	CCCTACTGCTGGCACTACCCCTCCAAGACCTTGTGGCATTGTGC-CCGCAAGAGC-GTGT	1848
Sbjct	1797	CCCTATTGCTGGCACTACCCACCAAGCAGTGTGGCGTGGT-CTCCGGAAGA-CTGTGT	1854
Query	1849	GTGGCCCGGTATATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACACCGACAGTC-G	1907
Sbjct	1855	GTGGCCCAAGTGTACTGTTTACCCCCAGCCAGTGGTGTAGTGGGACAGCCGACAGG-CTT	1913
Query	1908	GGCGCGCCTACCTACAGC-TGGGGTGCA-AATGATACGGATGCTTCTGTCCTT-AACAAC	1964
Sbjct	1914	GGAGCGCCCACTTACA-CGTGGGG-GGAGAAATGAGACAGATGCTTTCCT-ATTGAACAGC	1970
Query	1965	AC-CAGGCCACCGCT-GGG-CAATTGGTTCGGTTGTACCTGGATGAATCAACTGGATTG	2021
Sbjct	1971	ATC-GACCACCGCTGGGGTC-A-TGGTTCGGCTGCACGTGGATGAATCTTCTGCTAC	2027
Query	2022	ACCAA-AGTGTGGCGGAGCGCC-CCCTTG-TGTCATCGGAGGGGTG--GGCAA--CA--A	2071
Sbjct	2028	ACCAAGACT-TGCGGCGCACCAACC-TGCCGT-A-C-TAGAGTGACTTCAACGCCAGCA	2082
Query	2072	C--ACCTTGCTCTGCCCACTGATTGCTTCCGCAAAACATCCGGA-AGCCACATACTCTC-	2127
Sbjct	2083	CGGACC-TGTTGTGCCCAACGACTGTTTATGGAAGATCCTGATA-CCACTTAC-CTCA	2139
Query	2128	GGTGGCGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAGGCTTT	2187
Sbjct	2140	AATGCGGCTCTGGGCCCTGGCTACGCCAAGGTGCCTGATCGACTACCCCTACAGGCTCT	2199
Query	2188	GGCACTATCCTTGTACCA-TCAATTACACCATATTCAAAGTCAGGATGTACGTGGGAGGG	2246
Sbjct	2200	GGCATTACCCCTGCA-CAGTTAAGTATACCATCTTCAAATATAGGATGTATGTGGGAGGG	2258

Query	2247	GTCGAGCACAGGCTGGA-AGCGGCTTGAACCTGGACGCG-GGGCGAAGCTGTG-ATC-T	2302
Sbjct	2259	GTTGAGCACAGGCT-CACGGCTGCATGCAATTTCACTCGTGGG-GATCG-T-TGCAACTT	2314
Query	2303	GGAAGACAGGACAG--GTCCGAGCTCAG-C-CCGTTGCTGCTGTCCACCACACAGT-GG	2357
Sbjct	2315	GGAGGACAGAGACAGAAGT-C-AACT--GTCCTCTTGTGTGACTCCACCACGGAATGGG	2370
Query	2358	-CAGGTCCTT-CCGTGTTCTTTAC-GACCCTGCCAGCCTTGTCCACCGG-CCTCATCCA	2413
Sbjct	2371	CCA--T-TTTACCTTGCTCTTACTCGGA-CCTGCCCGCCTTGTGACTGGTCTTC-TCCA	2425
Query	2414	CCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCG-CGT	2472
Sbjct	2426	CCTCCACCAAAACATCGTGGACGTACAATTCATGTATGGCCTA---TC-A-CCT-GCCCT	2479
Query	2473	C-C-TGGGCAAT--TAAG-TGGGAGTACGTCTTCTCCTGTTCCCTTCTGCTT-CGACAGC	2526
Sbjct	2480	CACAAAATACATCGTCCGATGGGAGTGGGTAATACTCTTATTCCTGCT-CTTAGCGGAGC	2538
Query	2527	CGC-GCGTCTGCTCCTGCTTGTGGATGATGTTAC-TCATATCCCAAGCGGAGGCGCGCTT	2584
Sbjct	2539	C-CAGGGTTTGGCGCTGCTTATGGATGCTCAT-CTTGTGGGCGAGGCCGAAGCAGCTTT	2596
Query	2585	GGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTT	2644
Sbjct	2597	GGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTT	2656
Query	2645	CCTCGTGTCTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTA	2704
Sbjct	2657	CCTCGTGTCTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTA	2716
Query	2705	CGCCCTCTACGGGATGTGGCCTCTCCCTCTGCTCTGCTGGCGTTGCTTCAGCGGGCATA	2764
Sbjct	2717	CGCCCTCTACGGGATGTGGCCTCTCCCTCTGCTCTGCTGGCGTTGCTTCAGCGGGCATA	2776
Query	2765	CGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGGCGTTGTTCTTGTGCGGGTAAATGGC	2824
Sbjct	2777	TGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGGCGTTGTTCTTGTGCGGGTAAATGGC	2836
Query	2825	GCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCAATGGTGGCTTCAGTA	2884
Sbjct	2837	GCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCAATGGTGGCTTCAGTA	2896
Query	2885	TTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCCCGCCCAACAGCTCCGGG	2944
Sbjct	2897	TTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCGCCCAACAGCTCCGGG	2956
Query	2945	GGGGCGCGATGCCGTATCTTACTCATGTGTGTAGTACACCGACCTGGTATTGACAT	3004
Sbjct	2957	GGGGCGCGATGCCGTATCTTACTCATGTGTGTAGTACACCGACCTGGTATTGACAT	3016
Query	3005	CACCAAACACTCTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAA	3064
Sbjct	3017	CACCAAACACTCTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAA	3076
Query	3065	AGTCCCCTACTTCTGTGCGCGTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT	3124
Sbjct	3077	AGTCCCCTACTTCTGTGCGCGTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT	3136
Query	3125	AGCCGGAGGTCATTACGTGCAATATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTA	3184
Sbjct	3137	AGCCGGAGGTCATTACGTGCAATATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTA	3196
Query	3185	TGTGTATAACCACTCTACCCCTCTTCGAGACTGGGCGCAACACGGCCTGCGAGATCTGGC	3244
Sbjct	3197	TGTGTATAACCACTCTACCCCTCTTCGAGACTGGGCGCAACACGGCCTGCGAGATCTGGC	3256
Query	3245	CGTGGCTGTGGAACCAAGTCTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGGGGGC	3304
Sbjct	3257	CGTGGCTGTGGAACCAAGTCTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGGGGGC	3316
Query	3305	AGATACCGCCGCGTGCAGGTGACATCATCAACGGCTTGGCCGCTCTGCCCCGATAGGGGCCA	3364
Sbjct	3317	AGATACCGCCGCGTGCAGGTGACATCATCAACGGCTTGGCCGCTCTGCCCCGATAGGGGCCA	3376

Query	3365	GGAGATACTGCTTGGGCCAGCCGCGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCC	3424
Sbjct	3377	GGAGATACTGCTTGGGCCAGCCGCGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCC	3436
Query	3425	CATCACGGCGTACGCCAGCAGAGAGGCGCTCCTAGGGTGATAATCACCAGCCTGAC	3484
Sbjct	3437	CATCACGGCGTACGCCAGCAGAGAGGCGCTCCTAGGGTGATAATCACCAGCCTGAC	3496
Query	3485	TGCCCGGGGACAAAAACAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAAC	3544
Sbjct	3497	TGCCCGGGGACAAAAACAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAAC	3556
Query	3545	CTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAG	3604
Sbjct	3557	CTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAG	3616
Query	3605	GACCATCGCATCACCAAGGGTCTGTCTATCCAGATGTATACCAATGTGGACCAAGACCT	3664
Sbjct	3617	GACCATCGCATCACCAAGGGTCTGTCTATCCAGATGTATACCAATGTGGACCAAGACCT	3676
Query	3665	TGTGGGCTGGCCCGCTCTCTAAGGTTCCCGCTATTGACACCTGTACCTGCGGCTCTCT	3724
Sbjct	3677	TGTGGGCTGGCCCGCTCTCTAAGGTTCCCGCTATTGACACCTGTACCTGCGGCTCTCT	3736
Query	3725	GGACCTTTACCTGGTCACGAGGCACGCCGATGTCAATCCCGTGCGCCGGCAGGTGATAG	3784
Sbjct	3737	GGACCTTTACCTGGTCACGAGGCACGCCGATGTCAATCCCGTGCGCCGGCAGGTGATAG	3796
Query	3785	CAGGGGTAGCCTGCTTTTCCGCCCGGCCATTTCCTACTTGAAAGGCTCCTCGGGGGTCC	3844
Sbjct	3797	CAGGGGTAGCCTGCTTTTCCGCCCGGCCATTTCCTACTTGAAAGGCTCCTCGGGGGTCC	3856
Query	3845	GCTGTTGTGCCCGCGGGACACGCCGTGGGCTATTAGGGCCGCGGTGTGCACCGTGG	3904
Sbjct	3857	GCTGTTGTGCCCGCGGGACACGCCGTGGGCTATTAGGGCCGCGGTGTGCACCGTGG	3916
Query	3905	AGTGCTTAAAGCGGTGGACTTTATCCCTGTGAGAACCTAGGGACAACCATGAGATCCCC	3964
Sbjct	3917	AGTGCTTAAAGCGGTGGACTTTATCCCTGTGAGAACCTAGGGACAACCATGAGATCCCC	3976
Query	3965	GGTGTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCT	4024
Sbjct	3977	GGTGTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCT	4036
Query	4025	GCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGACGCCAGGG	4084
Sbjct	4037	GCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGACGCCAGGG	4096
Query	4085	CTACAAGGTGTTGGTGCTCAACCCCTCTGTGTGCAACGCTGGGCTTTGGTGCTTACAT	4144
Sbjct	4097	CTACAAGGTGTTGGTGCTCAACCCCTCTGTGTGCAACGCTGGGCTTTGGTGCTTACAT	4156
Query	4145	GTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCACTGG	4204
Sbjct	4157	GTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCACTGG	4216
Query	4205	CAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGG	4264
Sbjct	4217	CAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGG	4276
Query	4265	TGCTTATGACATAATAATTGTGACGAGTGCCACTCCAGGATGCCACATCCATCTTGGG	4324
Sbjct	4277	TGCTTATGACATAATAATTGTGACGAGTGCCACTCCAGGATGCCACATCCATCTTGGG	4336
Query	4325	CATCGGCACGTGCTTGTACCAAGCAGAGACTGCGGGGGCAGAGCTGTTGTGCTCGCCAC	4384
Sbjct	4337	CATCGGCACGTGCTTGTACCAAGCAGAGACTGCGGGGGCAGAGCTGTTGTGCTCGCCAC	4396
Query	4385	TGCTACCCCTCCGGGTCCTGCTACTGTGTCCCATCTTAACATCGAGGAGGTTGCTGTG	4444
Sbjct	4397	TGCTACCCCTCCGGGTCCTGCTACTGTGTCCCATCTTAACATCGAGGAGGTTGCTGTG	4456
Query	4445	CACCACCGGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGG	4504
Sbjct	4457	CACCACCGGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGG	4516

Query	4505	AAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGCTGGT	4564
Sbjct	4517	AAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGCTGGT	4576
Query	4565	CGCAITGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCGCAC	4624
Sbjct	4577	CGCAITGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCGCAC	4636
Query	4625	CAGCGGCGATGTTGTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTT	4684
Sbjct	4637	CAGCGGCGATGTTGTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTT	4696
Query	4685	CGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCCTTGACCC	4744
Sbjct	4697	CGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCCTTGACCC	4756
Query	4745	TACCTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGCTCCAGGACTCAACGCCG	4804
Sbjct	4757	TACCTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGCTCCAGGACTCAACGCCG	4816
Query	4805	GGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTTGGCACCGGGGAGCGCCC	4864
Sbjct	4817	GGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTTGGCACCGGGGAGCGCCC	4876
Query	4865	CTCCGGCATGTTGCATCTGCTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTA	4924
Sbjct	4877	CTCCGGCATGTTGCATCTGCTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTA	4936
Query	4925	TGAGCTCACGCCCCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGCT	4984
Sbjct	4937	TGAGCTCACGCCCCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGCT	4996
Query	4985	TCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGCGCTCTTACGGGCTCACTCATAT	5044
Sbjct	4997	TCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGCGCTCTTACGGGCTCACTCATAT	5056
Query	5045	AGATGCCCACTTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACCTGGTAGC	5104
Sbjct	5057	AGATGCCCACTTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACCTGGTAGC	5116
Query	5105	GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGATGTG	5164
Sbjct	5117	GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGATGTG	5176
Query	5165	GAAGTGTTTGATCCGCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACAGACT	5224
Sbjct	5177	GAAGTGTTTGATCCGCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACAGACT	5236
Query	5225	GGGCGCTGTTGAGAAATGAAGTCAACCTGACGCACCCAAATCACCAAATACATCATGACATG	5284
Sbjct	5237	GGGCGCTGTTGAGAAATGAAGTCAACCTGACGCACCCAAATCACCAAATACATCATGACATG	5296
Query	5285	CATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCTCCTGGC	5344
Sbjct	5297	CATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCTCCTGGC	5356
Query	5345	TGCTCTGGCCGCTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTT	5404
Sbjct	5357	TGCTCTGGCCGCTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTT	5416
Query	5405	GTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTTTGATGAGAT	5464
Sbjct	5417	GTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTTTGATGAGAT	5476
Query	5465	GGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTAGCAGATT	5524
Sbjct	5477	GGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTAGCAGATT	5536
Query	5525	CAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATACCCC	5584
Sbjct	5537	CAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATACCCC	5596
Query	5585	TGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTT	5644
Sbjct	5597	TGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTT	5656

Query	5645	CATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGC	5704
Sbjct	5657	CATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGC	5716
Query	5705	TTCAATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCCCTCT	5764
Sbjct	5717	TTCAATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCCCTCT	5776
Query	5765	CTTCAACATAATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGTACTGC	5824
Sbjct	5777	CTTCAACATAATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGTACTGC	5836
Query	5825	CTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGTCTCT	5884
Sbjct	5837	CTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGTCTCT	5896
Query	5885	CGTGGACATTCTTGCAGGGTATGGCGCGGGCTGGCGGGAGCTCTTGTAGCAATTCAGAT	5944
Sbjct	5897	CGTGGACATTCTTGCAGGGTATGGCGCGGGCTGGCGGGAGCTCTTGTAGCAATTCAGAT	5956
Query	5945	CATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGGCATCTCTCT	6004
Sbjct	5957	CATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGGCATCTCTCT	6016
Query	6005	GCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTGGCCC	6064
Sbjct	6017	GCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTGGCCC	6076
Query	6065	GGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCTCCCGGGGAACCA	6124
Sbjct	6077	GGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCTCCCGGGGAACCA	6136
Query	6125	TGTTTCCCCCACCACACTACGTGCCGGAGAGCGATGACGCCGCCCGCTCACTGCCATACT	6184
Sbjct	6137	TGTTTCCCCCACCACACTACGTGCCGGAGAGCGATGACGCCGCCCGCTCACTGCCATACT	6196
Query	6185	CAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTG	6244
Sbjct	6197	CAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTG	6256
Query	6245	TACCACTCCAIGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT	6304
Sbjct	6257	TACCACTCCAIGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT	6316
Query	6305	GAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCAACACTGCCTGGGATTCCCTT	6364
Sbjct	6317	GAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCAACACTGCCTGGGATTCCCTT	6376
Query	6365	TGTGTCCTGCCACGCGGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACTACG	6424
Sbjct	6377	TGTGTCCTGCCACGCGGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACTACG	6436
Query	6425	CTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGG	6484
Sbjct	6437	CTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGG	6496
Query	6485	TCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACACGGG	6544
Sbjct	6497	TCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACACGGG	6556
Query	6545	CCCCGTACTCCCTTCTCGCGCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGA	6604
Sbjct	6557	CCCCGTACTCCCTTCTCGCGCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGA	6616
Query	6605	GGAATACGTGGAGATAAGCGGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGA	6664
Sbjct	6617	GGAATACGTGGAGATAAGCGGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGA	6676
Query	6665	CAATCTTAAATGCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGT	6724
Sbjct	6677	CAATCTTAAATGCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGT	6736
Query	6725	GCGCCTACACAGGTTTGGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAG	6784
Sbjct	6737	GCGCCTACACAGGTTTGGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAG	6796

Query	6785	AGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCGAACCGGACGT	6844
Sbjct	6797	AGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCGAACCGGACGT	6856
Query	6845	AGCCGTGTGTACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCGGGAG	6904
Sbjct	6857	AGCCGTGTGTACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCGGGAG	6916
Query	6905	AAGGTTGGCGAGAGGGTACCCCCCTTCTATGCGCCAGCTCCTCGGTAGCCAGCTGTCCCG	6964
Sbjct	6917	AAGGTTGGCGAGAGGGTACCCCCCTTCTATGCGCCAGCTCCTCGGTAGCCAGCTGTCCCG	6976
Query	6965	TCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCATAGA	7024
Sbjct	6977	TCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCATAGA	7036
Query	7025	GGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAA	7084
Sbjct	7037	GGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAA	7096
Query	7085	CAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGT	7144
Sbjct	7097	CAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGT	7156
Query	7145	CTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCGTCTG	7204
Sbjct	7157	CTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCGTCTG	7216
Query	7205	GGCGCGGCGGACTACAACCCCCGCTAGTAGAGACGTGAAAAAGGCTGACTACGAACC	7264
Sbjct	7217	GGCGCGGCGGACTACAACCCCCGCTAGTAGAGACGTGAAAAAGGCTGACTACGAACC	7276
Query	7265	ACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCTGTGTCCTCGGCTCG	7324
Sbjct	7277	ACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCTGTGTCCTCGGCTCG	7336
Query	7325	GAAAAAGCGTACGGTGGTCTCACCGAATCAACCCATCTACTGCGCTTGGCCGAGCTTGC	7384
Sbjct	7337	GAAAAAGCGTACGGTGGTCTCACCGAATCAACCCATCTACTGCGCTTGGCCGAGCTTGC	7396
Query	7385	CACCAAAAGTTTTGGCAGCTCCTCAACTCCCGCATACGGGCGACAATACGACAACATC	7444
Sbjct	7397	CACCAAAAGTTTTGGCAGCTCCTCAACTCCCGCATACGGGCGACAATACGACAACATC	7456
Query	7445	CTCTGAGCCGCCCTTCTGGCTGCGGCGGAGCTCCGACGTTGAGTCTATTCTTCCAT	7504
Sbjct	7457	CTCTGAGCCGCCCTTCTGGCTGCGGCGGAGCTCCGACGTTGAGTCTATTCTTCCAT	7516
Query	7505	GCGGCGGCGGAGCTGGGGATCCGGATCTCAGCGACGGGTATGGTCGACGGT	7564
Sbjct	7517	GCGGCGGCGGAGCTGGGGATCCGGATCTCAGCGACGGGTATGGTCGACGGT	7576
Query	7565	CAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTATTCTTGACAGG	7624
Sbjct	7577	CAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTATTCTTGACAGG	7636
Query	7625	CGCACTCGTACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAA	7684
Sbjct	7637	CGCACTCGTACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAA	7696
Query	7685	CTCGTTGCTACGCCATCAAACTCTGGTGATTTCCACCACTTACCGAGTGTCTTGCCAAAG	7744
Sbjct	7697	CTCGTTGCTACGCCATCAAACTCTGGTGATTTCCACCACTTACCGAGTGTCTTGCCAAAG	7756
Query	7745	GCAGAAGAAAGTACATTTGACAGACTGCAAGTTCTGGAGAGCAATACAGGACGTGCT	7804
Sbjct	7757	GCAGAAGAAAGTACATTTGACAGACTGCAAGTTCTGGAGAGCAATACAGGACGTGCT	7816
Query	7805	CAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGC	7864
Sbjct	7817	CAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGC	7876
Query	7865	TTGACGCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGT	7924
Sbjct	7877	TTGACGCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGT	7936

Query	7925	CCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGA	7984
Sbjct	7937	CCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGA	7996
Query	7985	AGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAAGCAGGTTTCTGCGGTCA	8044
Sbjct	7997	AGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAAGCAGGTTTCTGCGGTCA	8056
Query	8045	GCCTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTCTCCCGACCTGGGCGTGGC	8104
Sbjct	8057	GCCTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTCTCCCGACCTGGGCGTGGC	8116
Query	8105	CGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGG	8164
Sbjct	8117	CGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGG	8176
Query	8165	AAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAGCGTG	8224
Sbjct	8177	AAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAGCGTG	8236
Query	8225	GAAGTCCAAGAAAGACCCCGATGGGGTTCGTAATGATACCCCGCTGTTTGAAGTCCACAGT	8284
Sbjct	8237	GAAGTCCAAGAAAGACCCCGATGGGGTTCGTAATGATACCCCGCTGTTTGAAGTCCACAGT	8296
Query	8285	CACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCA	8344
Sbjct	8297	CACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCA	8356
Query	8345	AGCCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAA	8404
Sbjct	8357	AGCCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAA	8416
Query	8405	TTCAAGGGGGGAAAACATGCGGCTACCGCAGGTGCCGCGCAGCGCGTACTGACAACTAG	8464
Sbjct	8417	TTCAAGGGGGGAAAACATGCGGCTACCGCAGGTGCCGCGCAGCGCGTACTGACAACTAG	8476
Query	8465	CTGTGGTAAACACCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGAGGGCT	8524
Sbjct	8477	CTGTGGTAAACACCTCACTTGTCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGAGGGCT	8536
Query	8525	CCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAGTGCGGG	8584
Sbjct	8537	CCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAGTGCGGG	8596
Query	8585	GGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGAGGCGTATGACCAGGTACTCCGC	8644
Sbjct	8597	GGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGAGGCGTATGACCAGGTACTCCGC	8656
Query	8645	CCCCCGGGGACCCCAACACAGAAATACGACTTGGAGCTTATAACATCATGCTCCTC	8704
Sbjct	8657	CCCCCGGGGACCCCAACACAGAAATACGACTTGGAGCTTATAACATCATGCTCCTC	8716
Query	8705	CAACGTGTGTCAGTCGCCACACGCGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCC	8764
Sbjct	8717	CAACGTGTGTCAGTCGCCACACGCGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCC	8776
Query	8765	TACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACATCCAGTCAATTCCCTG	8824
Sbjct	8777	TACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACATCCAGTCAATTCCCTG	8836
Query	8825	GCTAGGCCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATAGTATGACCA	8884
Sbjct	8837	GCTAGGCCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATAGTATGACCA	8896
Query	8885	TTCTTTTAGCGTCTCATAGCCAGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTA	8944
Sbjct	8897	TTCTTTTAGCGTCTCATAGCCAGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTA	8956
Query	8945	CGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGG	9004
Sbjct	8957	CGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGG	9016
Query	9005	CCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGATG	9064
Sbjct	9017	CCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGATG	9076

Query	9065	CCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGAGCTTGGAGACACCGGGGCCGGAGCGTCCG	9124
Sbjct	9077	CCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGAGCTTGGAGACACCGGGGCCGGAGCGTCCG	9136
Query	9125	CGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTG	9184
Sbjct	9137	CGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCTATATGTGGCAAGTACCTCTTCAACTG	9196
Query	9185	GGCAGTAAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCT	9244
Sbjct	9197	GGCAGTAAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCT	9256
Query	9245	CGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCATATGCCCG	9304
Sbjct	9257	CGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCATATGCCCG	9316
Query	9305	GCCCCGCTGGTTCGGTTTTCGCTACTCCTGCTCGTCGACGGGGTAGGCATCTACCTCCT	9364
Sbjct	9317	GCCCCGCTGGTTCGGTTTTCGCTACTCCTGCTCGTCGACGGGGTAGGCATCTACCTCCT	9376
Query	9365	CCCCAACCGATGAAGGTTGGGGTAAACATCCGGCCCTCTTAAGCCATTTCCTGTtttttt	9424
Sbjct	9377	CCCCAACCGATGAAGGTTGGGGTAAACATCCGGCCCTCTTAAGCCATTTCCTGTTTTTT	9436
Query	9425	tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt	9484
Sbjct	9437	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9496
Query	9485	tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt	9544
Sbjct	9497	TTTTTCCCTTCITTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGT	9556
Query	9545	CCGTGAGCCGCGATGACTGCAGAGAGTGCTGATACTGGCCCTCTTCGAGATCATGT	9599
Sbjct	9557	CCGTGAGCCGCGATGACTGCAGAGAGTGCTGATACTGGCCCTCTTCGAGATCATGT	9611

Score = 1118 bits (605), Expect = 0.0
Identities = 810/906 (89%), Gaps = 26/906 (2%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAAC TACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAAC TACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTAGTAGTGTCGTGCAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTAGTAGTGTCGTGCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTGCTTTCTTGGATAAACCCGCTCAATGCTGGAGATTGGCGTGCCCCC	240
Sbjct	181	GACGACCGGGTGCTTTCTTGGATAAACCCGCTCAATGCTGGAGATTGGCGTGCCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCTCCGGGAGGTCTCGTAGACCGTGCCACATGAGCAGCAATCCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCTCCGGGAGGTCTCGTAGACCGTGCCACATGAGCAGCAATCCTAAAC	360
Query	361	CTCAAGAAAAAACCAACAGTGAACACAACCGTCGCGCCAGGACGTCAAGTTCCTGGGGTG	420
Sbjct	361	CTCAAGAAAAAACCAAGAAACCAACCGTCGCGCCAGGACGTCAAGTTCCTGGGGTG	420
Query	421	GCGGTGAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGAGGGGCCATGAGTTGGGTGTGC	480
Sbjct	421	GCGGCCAGATCGTTGGCGGAGTATACTTGTGTGCCGCGAGGGGCCAGGTTGGGTGTGC	480
Query	481	GCGGACGAGGAAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGACGCTATCCCCA	540
Sbjct	481	GCGGACAGGAAAGACTTCGGAGCGGTCCAGCCAGCTGGAAGGCGGCAGCCATCCCTA	540

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Query 541 AGGCA-CGTCGGC-CCGAG-GGCAGGA-CCTGGGCTCAGCCCGGGTACCCCTTGGCCCTC 596
Sbjct 541 AAG-ATCGCGC-CTCC-ACTGGCAA-ATCCTGGGAAAACAGGATACCCCTTGGCCCTA 596

Query 597 TATGGCAATGAGGGT-TGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCC 655
Sbjct 597 TACGGGAATGAGGGACT-CGGCTGGGAGGATGGCTCCTGTCTCCCGCAGGTTCCCGTCC 655

Query 656 -TAGCT-GGGGCCCCACA-GACCCCCGGCTAGGTCGCGCAATTGGGTAAAGTCATCGA 712
Sbjct 656 CT--CTTGGGGCCCCA-ATGACCCCCGGCATAGGTCGCGCAACGTGGGTAAAGTCATCGA 712

Query 713 TACCCCTACGTGCGGCTTCGCCGACCTCATGGGGTACATACC-GCTCGTCGGCGCCCCC 771
Sbjct 713 TACCCCTACGTGCGGCTTTGCCGACCTCATGGGGTACATCCCTG-TCGTTGGGCGCCCCC 771

Query 772 TTGGAGGCG-CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAAC 830
Sbjct 772 TCGCGGCGGTC-GCCAGAGCTCTCGCGCATGGCGTGAGAGTCTTGGAGGACGGGGTTAAT 830

Query 831 TATGCAACAGGGAACCTT-CCTGGTTGCTC-TTCTCTATCTTCCCTT-CTGGCCCTGCTC 887
Sbjct 831 TTTGCAACAGGGAAC-TTACCCGGTTGCTCCTTT-CTATCTTC-TTGTGGCCCTGCTG 887

Query 888 TCTTGC 893
Sbjct 888 TCTGTC 893

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>gb|AR916114.1| Sequence 5 from patent US 7084266
Length=9611

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.310e+04 bits (7095), Expect = 0.0
Identities = 7616/7855 (96%), Gaps = 86/7855 (1%)
Strand=Plus/Plus

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Query 1791 CCCTACTGCTGGCACTACCCCTCCAAGACCTTGTGGCATTGTGC-CCGCAAAGAGC-GTGT 1848
Sbjct 1797 CCCTATTGCTGGCACTACCCACCAAGGCAGTGTGGCGTGGT-CTCCGGAAGA-CTGTGT 1854

Query 1849 GTGGCCCGGTATATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTC-G 1907
Sbjct 1855 GTGGCCAGTGTACTGTTTACCCCCAGCCAGTGGTAGTGGGCACGACCGACAGG-CTT 1913

Query 1908 GCGCGCCTACCTACAGC-TGGGGTGCA-AATGATACGGATGTCTTCGTCTTT-AACAAC 1964
Sbjct 1914 GGAGCGCCCACTTACA-CGTGGG-GGAGAATGAGACAGATGTCTTCT-ATTGAACAGC 1970

Query 1965 AC-CAGGCCACCCT-GGG-CAATTGGTTTCGGTTGTACCTGGATGAACCTCAACTGGATT 2021
Sbjct 1971 ACTC-GACCACCGCTGGGGTC-A-TGGTTTCGGTGCACGTGGATGAACCTCTTCTGCTAC 2027

Query 2022 ACCAA-AGTGTGCGGAGCGCC-CCCTTG-TGTCATCGGAGGGGTG--GGCAA--CA--A 2071
Sbjct 2028 ACCAAGACT-TGGGGCGACCAACC-TGCCGT-A-C-TAGAGCTGACTTCAACGCCAGCA 2082

Query 2072 C--ACCTTGCTCTGCCCACTGATTGCTTCCGCAAACATCCGGA-AGCCACATACTCTC- 2127
Sbjct 2083 CGGACC-TGTTGTGCCCCACGGACTGTTTtaggaagatcctgata-CCACTTAC-CTCA 2139

Query 2128 GGTGCGGCTCCGGTCCTGGATTACACCCAGGTGCATGGTGCAGTACCCGATATAGGCTTT 2187
Sbjct 2140 AATGCGGCTCTGGGCCCTGGCTCACGCCAAGGTGCTGATCGACTACCCCTACAGGCTCT 2199

Query 2188 GGCATATCCTTGTACCA-TCAATTACCATATTCAAAGTCAGGATGTACGTGGGAGGG 2246
Sbjct 2200 GGCATTACCCCTGCA-CAGTTAACTATACCATTTCAAATAAGGATGTATGTGGGAGGG 2258

Query 2247 GTCGAGCACAGGCTGGA-AGCGGCTGCAACTGGACGCG-GGGCGAACGCTGTG-ATC-T 2302
Sbjct 2259 GTTGAGCACAGGCT-CACGGCTGCATGCATTTCACTCTGTGGG-GATCG-T-TGCAACTT 2314

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9/8/2009

Query	3425	CATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCCTGAC	3484
Sbjct	3437	CATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCCTGAC	3496
Query	3485	TGGCCGGGACAAAAACAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAAC	3544
Sbjct	3497	TGGCCGGGACAAAAACAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAAC	3556
Query	3545	CTTCCTGGCAACGTGCATCAATGGGGTATGCTGGAGTGTCTACCACGGGGCCGGAACGAG	3604
Sbjct	3557	CTTCCTGGCAACGTGCATCAATGGGGTATGCTGGAGTGTCTACCACGGGGCCGGAACGAG	3616
Query	3605	GACCATCGCATCACCCAAGGGTCTCTGTCATCCAGATGTATACCAATGTGGACCAAGACCT	3664
Sbjct	3617	GACCATCGCATCACCCAAGGGTCTCTGTCATCCAGATGTATACCAATGTGGACCAAGACCT	3676
Query	3665	TGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCGTGACTCGGGCTCCTC	3724
Sbjct	3677	TGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCGTGACTCGGGCTCCTC	3736
Query	3725	GGACCTTTACTCGGTACGAGGACGCGCGATGTCAATTCCCGTGGCCGGCGAGGTGATAG	3784
Sbjct	3737	GGACCTTTACTCGGTACGAGGACGCGCGATGTCAATTCCCGTGGCCGGCGAGGTGATAG	3796
Query	3785	CAGGGGTAGCCTGCTTTTCGCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCC	3844
Sbjct	3797	CAGGGGTAGCCTGCTTTTCGCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCC	3856
Query	3845	GCTGTTGTGCCCCGGGGACACGCGTGGGCTATTTCAGGGCCGGGTGTGACCCGTGG	3904
Sbjct	3857	GCTGTTGTGCCCCGGGGACACGCGTGGGCTATTTCAGGGCCGGGTGTGACCCGTGG	3916
Query	3905	AGTGCTTAAAGCGGTGGACTTTATCCCTGTGAGAACTAGGAGCAACCATGAGATCCCC	3964
Sbjct	3917	AGTGCTTAAAGCGGTGGACTTTATCCCTGTGAGAACTAGGAGCAACCATGAGATCCCC	3976
Query	3965	GGTGTTCACGGACAATCTCTCCACCAGCAGTGGCCACAGAGCTTCCAGGTGGCCACCT	4024
Sbjct	3977	GGTGTTCACGGACAATCTCTCCACCAGCAGTGGCCACAGAGCTTCCAGGTGGCCACCT	4036
Query	4025	GCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGCCAGGG	4084
Sbjct	4037	GCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGCCAGGG	4096
Query	4085	CTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACAT	4144
Sbjct	4097	CTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACAT	4156
Query	4145	GTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGTGAGAACAATTACCACTGG	4204
Sbjct	4157	GTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGTGAGAACAATTACCACTGG	4216
Query	4205	CAGCCCCATCAGTACTCCACCTACGGCAAGTTCTTGGCGACGGCGGGTGCTCAGGAGG	4264
Sbjct	4217	CAGCCCCATCAGTACTCCACCTACGGCAAGTTCTTGGCGACGGCGGGTGCTCAGGAGG	4276
Query	4265	TGCTTATGACATAATAAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCACTTTGGG	4324
Sbjct	4277	TGCTTATGACATAATAAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCACTTTGGG	4336
Query	4325	CATCGGCACTGTCTTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTGTGCTCGCCAC	4384
Sbjct	4337	CATCGGCACTGTCTTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTGTGCTCGCCAC	4396
Query	4385	TGCTACCCCTCCGGGCTCCGTCACCTGTGTCCCATCCTAAACATCGAGGAGGTGCTCTGTC	4444
Sbjct	4397	TGCTACCCCTCCGGGCTCCGTCACCTGTGTCCCATCCTAAACATCGAGGAGGTGCTCTGTC	4456
Query	4445	CACCACCGGAGAGATCCCCCTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGG	4504
Sbjct	4457	CACCACCGGAGAGATCCCCCTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGG	4516
Query	4505	AAGACATCTCATCTTCTGCCACTCAAGAAGAAGTGGCAGAGCTCGCCGCGAAGCTGTG	4564
Sbjct	4517	AAGACATCTCATCTTCTGCCACTCAAGAAGAAGTGGCAGAGCTCGCCGCGAAGCTGTG	4576

Query	4565	CGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCCGAC	4624
Sbjct	4577	CGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCCGAC	4636
Query	4625	CAGCGGCGATGTTGTGCTGCTGACCGATGCTCTCATGACTGGCTTTACCGGCGACTT	4684
Sbjct	4637	CAGCGGCGATGTTGTGCTGCTGACCGATGCTCTCATGACTGGCTTTACCGGCGACTT	4696
Query	4685	CGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCCTTGACCC	4744
Sbjct	4697	CGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCCTTGACCC	4756
Query	4745	TACCTTTTACCATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCG	4804
Sbjct	4757	TACCTTTTACCATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCG	4816
Query	4805	GGCGAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGAGCGCCC	4864
Sbjct	4817	GGCGAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGAGCGCCC	4876
Query	4865	CTCCGGCATGTTGCAGTCGTCCGTCCTCTGTGAGTGTCTATGACGCGGGCTGTGCTTGGTA	4924
Sbjct	4877	CTCCGGCATGTTGCAGTCGTCCGTCCTCTGTGAGTGTCTATGACGCGGGCTGTGCTTGGTA	4936
Query	4925	TGAGCTCACGCCCCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGCT	4984
Sbjct	4937	TGAGCTCACGCCCCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGCT	4996
Query	4985	TCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCCTACTCATAT	5044
Sbjct	4997	TCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCCTACTCATAT	5056
Query	5045	AGATGCCCATCTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACCTGTGTAGC	5104
Sbjct	5057	AGATGCCCATCTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACCTGTGTAGC	5116
Query	5105	GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGATGTG	5164
Sbjct	5117	GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGATGTG	5176
Query	5165	GAAGTGTTTGATCCGCCTTAAACCCACCCCTCCATGGGCGAACACCCCTGCTATACAGACT	5224
Sbjct	5177	GAAGTGTTTGATCCGCCTTAAACCCACCCCTCCATGGGCGAACACCCCTGCTATACAGACT	5236
Query	5225	GGCGCGTGTTCAGAAATGAAGTCACCCCTGACGCACCCCAATCACCAAATACATCATGACATG	5284
Sbjct	5237	GGCGCGTGTTCAGAAATGAAGTCACCCCTGACGCACCCCAATCACCAAATACATCATGACATG	5296
Query	5285	CATGTCGGCGGACCTGGAGGTGTCACGAGCACCTGGTGCTCGTTGGCGGCGTCTCGGC	5344
Sbjct	5297	CATGTCGGCGGACCTGGAGGTGTCACGAGCACCTGGTGCTCGTTGGCGGCGTCTCGGC	5356
Query	5345	TGCTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTT	5404
Sbjct	5357	TGCTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTT	5416
Query	5405	GTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTCTCTACAGGAGTTCGATGAGAT	5464
Sbjct	5417	GTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTCTCTACAGGAGTTCGATGAGAT	5476
Query	5465	GGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTT	5524
Sbjct	5477	GGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTT	5536
Query	5525	CAGGAGAAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGGCATGAGAGGTTATACCCCC	5584
Sbjct	5537	CAGGAGAAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGGCATGAGAGGTTATACCCCC	5596
Query	5585	TGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTT	5644
Sbjct	5597	TGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTT	5656
Query	5645	CATCAGTGGGATACAACTACTTGGCGGGCTGTCAACGCTGCTGTGAACCCGCCATTGC	5704
Sbjct	5657	CATCAGTGGGATACAACTACTTGGCGGGCTGTCAACGCTGCTGTGAACCCGCCATTGC	5716

Query	5705	TTCATTGATGGCTTTTACAGCTGCCGTCACCGCCCACTAACCACTGGCCAAACCTCTCT	5764
Sbjct	5717	TTCATTGATGGCTTTTACAGCTGCCGTCACCGCCCACTAACCACTGGCCAAACCTCTCT	5776
Query	5765	CTTCAACATAATTGGGGGGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCGCTACTGC	5824
Sbjct	5777	CTTCAACATAATTGGGGGGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCGCTACTGC	5836
Query	5825	CTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGGAAGGTCCT	5884
Sbjct	5837	CTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGGAAGGTCCT	5896
Query	5885	CGTGACATTTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGAT	5944
Sbjct	5897	CGTGACATTTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGAT	5956
Query	5945	CATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGGCATCTCTCT	6004
Sbjct	5957	CATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGGCATCTCTCT	6016
Query	6005	GCCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTGGCCC	6064
Sbjct	6017	GCCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTGGCCC	6076
Query	6065	GGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCA	6124
Sbjct	6077	GGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCA	6136
Query	6125	TGTTTTCCCCCAGCACTACGTGCCGGAGAGCGATGACGCGCCCGCGCTACTGCCATACT	6184
Sbjct	6137	TGTTTTCCCCCAGCACTACGTGCCGGAGAGCGATGACGCGCCCGCGCTACTGCCATACT	6196
Query	6185	CAGCAGCCTCACTGTAAACCAAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTG	6244
Sbjct	6197	CAGCAGCCTCACTGTAAACCAAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTG	6256
Query	6245	TACCACTCCAATGCTCCGGTTCTTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT	6304
Sbjct	6257	TACCACTCCAATGCTCCGGTTCTTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT	6316
Query	6305	GAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTT	6364
Sbjct	6317	GAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTT	6376
Query	6365	TGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCG	6424
Sbjct	6377	TGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCG	6436
Query	6425	CTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGG	6484
Sbjct	6437	CTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGG	6496
Query	6485	TCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAACGCCATACACCACGGG	6544
Sbjct	6497	TCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAACGCCATACACCACGGG	6556
Query	6545	CCCCGTGACTCCCTTCTCGCCCGAACTATAAGTTGCGCGTGTGGAGGGTGTCTGCAGA	6604
Sbjct	6557	CCCCGTGACTCCCTTCTCGCCCGAACTATAAGTTGCGCGTGTGGAGGGTGTCTGCAGA	6616
Query	6605	GGAATACGTGGAGATTAAGCGGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGA	6664
Sbjct	6617	GGAATACGTGGAGATTAAGCGGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGA	6676
Query	6665	CAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAAATGGAACGGGGT	6724
Sbjct	6677	CAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAAATGGAACGGGGT	6736
Query	6725	GCGCCTACACAGGTTTGGCGCCCTTGCAGGCCCTTGTCTGCGGGAGGAGGTATCATTAG	6784
Sbjct	6737	GCGCCTACACAGGTTTGGCGCCCTTGCAGGCCCTTGTCTGCGGGAGGAGGTATCATTAG	6796
Query	6785	AGTAGGACTCCACAGTACCCGGTGGGTTCGCAATTACCTTGCAGGCCGGAACCGGACGT	6844
Sbjct	6797	AGTAGGACTCCACAGTACCCGGTGGGTTCGCAATTACCTTGCAGGCCGGAACCGGACGT	6856

Query	6845	AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAG	6904
Sbjct	6857	AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAG	6916
Query	6905	AAGGTTGGCGAGAGGGTACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTGCCG	6964
Sbjct	6917	AAGGTTGGCGAGAGGGTACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTGCCG	6976
Query	6965	TCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTTGACGCCGAGCTCATAGA	7024
Sbjct	6977	TCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTTGACGCCGAGCTCATAGA	7036
Query	7025	GGCTAACCTCCTGTGGAGGCGAGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAA	7084
Sbjct	7037	GGCTAACCTCCTGTGGAGGCGAGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAA	7096
Query	7085	CAAAGTGGTGATTCTGGACTCCTTCGATCCGTTTGTGGCAGAGGAGATGAGCGGGAGGT	7144
Sbjct	7097	CAAAGTGGTGATTCTGGACTCCTTCGATCCGTTTGTGGCAGAGGAGATGAGCGGGAGGT	7156
Query	7145	CTCCGTACTCGAGAAATTCGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCGTCTG	7204
Sbjct	7157	CTCCGTACTCGAGAAATTCGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCGTCTG	7216
Query	7205	GGCGCGGCCCGGACTACAACCCCCCGCTAGTAGAGACGTGAAAAAGGCTGACTACGAACC	7264
Sbjct	7217	GGCGCGGCCCGGACTACAACCCCCCGCTAGTAGAGACGTGAAAAAGGCTGACTACGAACC	7276
Query	7265	ACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGGCTCCGCTCG	7324
Sbjct	7277	ACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGGCTCCGCTCG	7336
Query	7325	GA AAAAGCGTACGGTGGTCTCACCAGAAACAACCTATCTACTGCCTTGGCCGAGCTTGC	7384
Sbjct	7337	GA AAAAGCGTACGGTGGTCTCACCAGAAACAACCTATCTACTGCCTTGGCCGAGCTTGC	7396
Query	7385	CACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATC	7444
Sbjct	7397	CACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATC	7456
Query	7445	CTCTGAGCCCGCCCTTCTGGCTGcccccccGACTCCGACGTTGAGTCCTATTCTTCCAT	7504
Sbjct	7457	CTCTGAGCCCGCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTATTCTTCCAT	7516
Query	7505	GcccccccTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCAGCGGTGATGGTTCAGCGT	7564
Sbjct	7517	GCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCAGCGGTGATGGTTCAGCGT	7576
Query	7565	CAGTAGTGGGGCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGACAGG	7624
Sbjct	7577	CAGTAGTGGGGCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGACAGG	7636
Query	7625	CGCACTCGTACCCCGTGCCTGCGGAAGAAACAAAACCTGCCATCAACGCACTGAGCAA	7684
Sbjct	7637	CGCACTCGTACCCCGTGCCTGCGGAAGAAACAAAACCTGCCATCAACGCACTGAGCAA	7696
Query	7685	CTCGTGTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCGAGTGTGTCGCAAG	7744
Sbjct	7697	CTCGTGTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCGAGTGTGTCGCAAG	7756
Query	7745	GCAGAGAAAGTCACATTTGACAGACTGCAAGTTCCTGGACAGCCATTACAGGACGTGCT	7804
Sbjct	7757	GCAGAGAAAGTCACATTTGACAGACTGCAAGTTCCTGGACAGCCATTACAGGACGTGCT	7816
Query	7805	CAAGGAGGTCAAAGCAGCGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGC	7864
Sbjct	7817	CAAGGAGGTCAAAGCAGCGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGC	7876
Query	7865	TTGACGCTGACGCCCCACATTGAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGT	7924
Sbjct	7877	TTGACGCTGACGCCCCACATTGAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGT	7936
Query	7925	CCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCGGTGGAAAGACCTTCTGGA	7984
Sbjct	7937	CCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCGGTGGAAAGACCTTCTGGA	7996

Query	7985	AGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCA	8044
Sbjct	7997	AGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCA	8056
Query	8045	GCGTGAAGAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGCGTGGC	8104
Sbjct	8057	GCGTGAAGAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGCGTGGC	8116
Query	8105	CGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGG	8164
Sbjct	8117	CGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGG	8176
Query	8165	AAGCTCCTACGGATTCCAATACTACCCAGGACAGCGGGTTGAATTCCTCGTGAACGCGTG	8224
Sbjct	8177	AAGCTCCTACGGATTCCAATACTACCCAGGACAGCGGGTTGAATTCCTCGTGAACGCGTG	8236
Query	8225	GAAGTCCAAGAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGT	8284
Sbjct	8237	GAAGTCCAAGAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGT	8296
Query	8285	CAGTGAAGGACATCCGTACGGAGGAGCAATTTACCAATGTTGTGACCTGGACCCCA	8344
Sbjct	8297	CAGTGAAGGACATCCGTACGGAGGAGCAATTTACCAATGTTGTGACCTGGACCCCA	8356
Query	8345	AGCCCGCGTGGCCATCAAGTCCCTACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAA	8404
Sbjct	8357	AGCCCGCGTGGCCATCAAGTCCCTACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAA	8416
Query	8405	TTCAAGGGGGGAAAATGCGGCTACCGCAGGTGCCGCGAGCGCGTACTGACAACTAG	8464
Sbjct	8417	TTCAAGGGGGGAAAATGCGGCTACCGCAGGTGCCGCGAGCGCGTACTGACAACTAG	8476
Query	8465	CTGTGGTAAACACCTCACTTGCTACATCAAGGCCCGGCGAGCCTGTCGAGCCGAGGGGT	8524
Sbjct	8477	CTGTGGTAAACACCTCACTTGCTACATCAAGGCCCGGCGAGCCTGTCGAGCCGAGGGGT	8536
Query	8525	CCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAGTGCGGG	8584
Sbjct	8537	CCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAGTGCGGG	8596
Query	8585	GGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACCGGAGGCTATGACCAGGTACTCCGC	8644
Sbjct	8597	GGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACCGGAGGCTATGACCAGGTACTCCGC	8656
Query	8645	GGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACCGGAGGCTATGACCAGGTACTCCGC	8704
Sbjct	8657	GGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACCGGAGGCTATGACCAGGTACTCCGC	8716
Query	8705	CAACGTGTGAGTGCAGCCAGCGGCGTGGAAAGAGGCTTACTACCTTACCCGTGACCC	8764
Sbjct	8717	CAACGTGTGAGTGCAGCCAGCGGCGTGGAAAGAGGCTTACTACCTTACCCGTGACCC	8776
Query	8765	TACAACCCCTTCGCGAGAGCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTCTG	8824
Sbjct	8777	TACAACCCCTTCGCGAGAGCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTCTG	8836
Query	8825	GCTAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATACTGATGACCCA	8884
Sbjct	8837	GCTAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATACTGATGACCCA	8896
Query	8885	TTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTA	8944
Sbjct	8897	TTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTA	8956
Query	8945	CGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAAATCATCAAAGACTCCATGG	9004
Sbjct	8957	CGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAAATCATCAAAGACTCCATGG	9016
Query	9005	CCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAATCAATAGGGTGGCCCGCATG	9064
Sbjct	9017	CCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAATCAATAGGGTGGCCCGCATG	9076
Query	9065	CCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGAGGTCGCG	9124
Sbjct	9077	CCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGAGGTCGCG	9136

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Query 9125  CGCTAGGCTTCTGTCCAGAGGAGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTG 9184
           |||
Sbjct 9137  CGCTAGGCTTCTGTCCAGAGGAGCAGGGCTGCTATATGTGGCAAGTACCTCTTCAACTG 9196
           |||
Query 9185  GGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGGCTGGACTTGTG 9244
           |||
Sbjct 9197  GGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGGCTGGACTTGTG 9256
           |||
Query 9245  CGGTTGGTTACAGGCTGGCTACAGCGGGGAGACATTATCAGACGCTGTCTCATGCCCG 9304
           |||
Sbjct 9257  CGGTTGGTTACAGGCTGGCTACAGCGGGGAGACATTATCAGACGCTGTCTCATGCCCG 9316
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Query 9305  GCCCCGCTGGTTCTGCTTTTGCCCTACTCTGCTCGCTGCAGGGGTAGGCATCTACCTCT 9364
           |||
Sbjct 9317  GCCCCGCTGGTTCTGCTTTTGCCCTACTCTGCTCGCTGCAGGGGTAGGCATCTACCTCT 9376
           |||
Query 9365  CCCCAACCGATGAAGGTTGGGGTAAACACTCCGGGCTCTTAAGCCATTTCCTGtttttt 9424
           |||
Sbjct 9377  CCCCAACCGATGAAGGTTGGGGTAAACACTCCGGGCTCTTAAGCCATTTCCTGTTTTT 9436
           |||
Query 9425  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9484
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Sbjct 9437  TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 9496
           |||
Query 9485  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9544
           |||
Sbjct 9497  TTTTTCCCTCTTTTAAATGGTGGCTCCAATCTAGCCCTAGTCACGGCTAGCTGTGAAAGGT 9556
           |||
Query 9545  CCGTGAGCCGATGACTGCAGAGAGTGTGATAGTGGCTCTCTCGACATCATGT 9599
           |||
Sbjct 9557  CCGTGAGCCGATGACTGCAGAGAGTGTGATAGTGGCTCTCTCGACATCATGT 9611
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Score = 1062 bits (575), Expect = 0.0
 Identities = 800/906 (88%), Gaps = 26/906 (2%)
 Strand=Plus/Plus

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Query 1  GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAACACTG 60
Sbjct 1  GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAACACTG 60

Query 61  TCTTCACGCAAGAACGCTCTAGCCATGGCGTTAGTATGAGTGTGCTGCAGCCTCCAGGAC 120
Sbjct 61  TCTTCACGCAAGAACGCTCTAGCCATGGCGTTAGTATGAGTGTGCTGCAGCCTCCAGGAC 120

Query 121  ccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Sbjct 121  CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180

Query 181  GACGACCGGGTCCCTTCTTGGATAAACCCGCTCAATGCTCGGAGATTGGGCGTGCCCC 240
Sbjct 181  GAAGACTTGGGTCCTTCTTGGATAAACCCACTCTATGCCCGGCCATTGGGCGTGCCCC 240

Query 241  GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGG 300
Sbjct 241  GCAAGACTGCTAGCCGAGTAGCGTTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGG 300

Query 301  GTGCTTGGCAGTGTCCCGGGAGGCTCTCGTAGACCGTGACCATGAGCACGAATCCTAAAC 360
Sbjct 301  GTGCTTGGCAGTGTCCCGGGAGGCTCTCGTAGACCGTGACCATGAGCACGAATCCTAAAC 360

Query 361  CTCAAAGAAAAACCAACGTAACACCAACCGTGCGCCACGAGGACGTCAAGTTCCCGGGTG 420
Sbjct 361  CTCAAAGAAAAACCAAGAAACACCAACCGTGCGCCACGAGGACGTCAAGTTCCCGGGTG 420

Query 421  GCGGTGAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTG 480
Sbjct 421  GCGCCAGATCGTTGGCGGAGTATACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTG 480

Query 481  GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGACGCTATCCCCA 540
Sbjct 481  GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGGAGCGCAGCCCATCCCTA 540

Query 541  AGGCA-CGTGCGC-CCGAG-GGCAGGA-CTTGGGCTCAGCCCGGGTACCCTTGGCCCCCTC 596
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Sbjct 541 AAG-ATCGGCG-CTCC-ACTGGCAA-ATCCTGGGGAAAACAGGATACCCCTGGCCCCCTA 596
Query 597 TATGGCAATGAGGGT-TGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCC 655
Sbjct 597 TACGGGAATGAGGGACT-CGGCTGGCGAGGATGGCTCCTGTCTCCCGGAGGTTCCTCGTCC 655
Query 656 -TAGCT-GGGGCCCCACA-GACCCCGGCGTAGGTGCGCAATTGGGTAAGGTCATCGA 712
Sbjct 656 CT--CTTGGGGCCCCA-ATGACCCCGGCATAGGTGCGCAACGTGGGTAAGGTCATCGA 712
Query 713 TACCCCTTACGTGCGGCTTCGCCGACCTCATGGGGTACATACC-GCTCGTCGGCGCCCCCTC 771
Sbjct 713 TACCCCTAACGTGCGGCTTTGCCGACCTCATGGGGTACATCCCTG-TCGTGGGCGCCCCCGC 771
Query 772 TTGGAGGCG-CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAAC 830
Sbjct 772 TCGGCGGGGTC-GCCAGAGCTCTCGCGCATGGCGTGAAGTCTTGGAGGACGGGGTTAAT 830
Query 831 TATGCAACAGGGAACCTT-CCTGGTTGCTC-TTCTCTATCTTCCCTT-CTGGCCCTGCTC 887
Sbjct 831 TTGCAACAGGGAAC-TTACCCGGTTGCTCCTTT-TCTATCTTCT-TGTGTCGCTGCTG 887
Query 888 TCTGTC 893
Sbjct 888 TCCTGC 893

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>emb|AX057094.1| Sequence 9 from Patent W00075338
Length=9611

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.310e+04 bits (7095), Expect = 0.0
Identities = 7616/7855 (96%), Gaps = 86/7855 (1%)
Strand=Plus/Plus

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Query 1791 CCCTACTGCTGGCACTACCTCCAAGACCTTGTGGCATTGTGC-CCGCAAAGAGC-GTGT 1848
Sbjct 1797 CCTATATGCTGGCACTACCCACCAAGCAGTGTGGCGTGTG-CTCCGGAAGA-CTGTGT 1854
Query 1849 GTGGCCCGGTATATTGCTTCACTCCCAGCCCGTGGTGGGGAACGACCGACAGGTC-G 1907
Sbjct 1855 GTGGCCCAAGTACTGTTTACCCCCAGCCAGTGGTAGTGGGCACGACCGACAGG-CTT 1913
Query 1908 GCGCGCCTACTACAGC-TGGGGTGCA-AATGATACGGATGCTTCTGTCCTT-AACAAC 1964
Sbjct 1914 GGAGCGCCCACTTACA-CGTGGGG-GGAGAATGAGACAGATGCTTCTTCT-ATTGAACAGC 1970
Query 1965 AC-CAGGCCACCGCT-GGG-CAATTGGTTTCGGTTGTACCTGGATGAATCAACTGGATTTC 2021
Sbjct 1971 ACTC-GACCACCGCTGGGGTC-A-TGGTTCGGCTGCACGTGGATGAATCTTCTGCTAC 2027
Query 2022 ACCAA-AGTGTGCGGAGCGCC-CCCTTG-TGTCATCGGAGGGGTG--GGCAA--CA--A 2071
Sbjct 2028 ACCAAGACT-TGCGGCGCACCAACC-TGCCGT-A-C-TAGAGCTGACTTCAACGCCAGCA 2082
Query 2072 C--ACCTTGCTTGGCCCACTGATGCTTCCGCCAAACATCCGGA-AGCCACATATCTCTC- 2127
Sbjct 2083 CGGACC-IGTTGTGCCCCACGGACTGTTTATGGAAGCATCTTGATA-CCACTTAC-CTCA 2139
Query 2128 GTTGCGGCTCCGGTCCCTGGATTACACCAAGGTGCAATGGTGCATACCCCGTATAGGCTTT 2187
Sbjct 2140 AATGCGGCTCTGGGCCCTGGCTCACGCCAAGGTGCTGATGCACTACCCCTACAGGCTCT 2199
Query 2188 GGCACATATCCTTGTACCA-TCAATTACACCATAATCAAAGTCAGGATGTACGTGGGAGGG 2246
Sbjct 2200 GGCAATTACCCCTGCA-CAGTTAACTATACCATCTTCAAATAAGGATGTATGTGGGAGGG 2258
Query 2247 GTCAGACACAGGCTGGA-AGCGGCTGCAACTGGACGCG-GGGCGAACGCTGTG-ATC-T 2302
Sbjct 2259 GTTGAGCACAGGCT-CACGGCTGCATGCAATTCTACTGTTGGG-GATCG-T-TGCAACTT 2314
Query 2303 GGAAGACAGGGACAG--GTCCGAGCTCAG-C-CCGTGCTGCTGTCCACCACACAGT-GG 2357

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Sbjct	2315	GGAGGACAGAGACAGAAGT-C-AACT--GTCCTCTTTGTGCACTCCACCACGGAATGGG	2370
Query	2358	-CAGGTCCCTT-CGGTGTCTTTTAC-GACCCGCGCAGCCCTGTGCACCGG-CCTCATCCA	2413
Sbjct	2371	CCA--T-TTTACCTTGCTCTTACTCGGA-CCTGCCGCCCTTGTGCACTGGTCTTC-TC	2425
Query	2414	CCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCG-CGT	2472
Sbjct	2426	CCTCCACCAAAACATCGTGGACGTACAATTCATGTATGGCCTA---TC-A-CCT-GCCCT	2479
Query	2473	C-C-TGGGCCAT--TAAG-TGGGAGTACGTCGTTCTCTGTTCCTTCTGCTT-CCAGACG	2526
Sbjct	2480	CACAAAATACATCGTCCGATGGGAGTGGTAATCTTATTCTGCT-CTTAGCGGACG	2538
Query	2527	CGC-GCGCTGCTCCGCTTGTGGATGATGTTAC-ICATATCCCAAGCGGAGCGCGCTTT	2584
Sbjct	2539	C-CAGGGTTTGGCGCTTGTATGGAAGTCTAT-CTTGTGGGCCAGGCCGAACGCTTT	2596
Query	2585	GGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGACGCACGGTCTTGTGTCCTT	2644
Sbjct	2597	GGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGACGCACGGTCTTGTGTCCTT	2656
Query	2645	CCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTA	2704
Sbjct	2657	CCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTA	2716
Query	2705	CGCCCTCTACGGGATGTGGCTCTCCTCCTGCTCTGCTGGCGTTGCCTCAGCGGGCATA	2764
Sbjct	2717	CGCCCTCTACGGGATGTGGCTCTCCTCCTGCTCTGCTGGCGTTGCCTCAGCGGGCATA	2776
Query	2765	CGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGGCGTTGTCTTGTTCGGGTTAATGCG	2824
Sbjct	2777	TGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGGCGTTGTCTTGTTCGGGTTAATGCG	2836
Query	2825	GCTGACTCTGTGCGCAATATTACAAGCGCTATATCAGCTGGTGCAATGGTGGCTCAGTA	2884
Sbjct	2837	GCTGACTCTGTGCGCAATATTACAAGCGCTATATCAGCTGGTGCAATGGTGGCTCAGTA	2896
Query	2885	TTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCACTCCGCGG	2944
Sbjct	2897	TTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCACTCCGCGG	2956
Query	2945	ggggCGCGATGCCGTCACTTACTCATGTGTGTAGTACACCCGACCCCTGGTATTGACAT	3004
Sbjct	2957	GGGGCGCGATGCCGTCACTTACTCATGTGTGTAGTACACCCGACCCCTGGTATTGACAT	3016
Query	3005	CACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAA	3064
Sbjct	3017	CACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAA	3076
Query	3065	AGTCCCTACTTCTGTCGCGTTCAGGCGCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT	3124
Sbjct	3077	AGTCCCTACTTCTGTCGCGTTCAGGCGCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT	3136
Query	3125	AGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTA	3184
Sbjct	3137	AGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTA	3196
Query	3185	TGTGTATAACCACTCTCACCCCTCTTCGAGACTGGGCGCACACGGCTTGCAGATCTGGC	3244
Sbjct	3197	TGTGTATAACCACTCTCACCCCTCTTCGAGACTGGGCGCACACGGCTTGCAGATCTGGC	3256
Query	3245	CTGTGCTGTGGAAACAGTCTCTTCTCCGAATGGAGACCAAGCTCATCAGTGGGGGGG	3304
Sbjct	3257	CTGTGCTGTGGAAACAGTCTCTTCTCCGAATGGAGACCAAGCTCATCAGTGGGGGGG	3316
Query	3305	AGATACCGCGCGTGCAGGTGACATCATCAACGGCTTGCCTGCTCTGCCCCGATAGGGGCCA	3364
Sbjct	3317	AGATACCGCGCGTGCAGGTGACATCATCAACGGCTTGCCTGCTCTGCCCCGATAGGGGCCA	3376
Query	3365	GGAGATACTGCTTGGGCCAGCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCC	3424
Sbjct	3377	GGAGATACTGCTTGGGCCAGCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCC	3436
Query	3425	CATCAGCGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCCTGAC	3484

Sbjct	3437	CATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCCTGAC	3496
Query	3485	TGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCCAAAC	3544
Sbjct	3497	TGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCCAAAC	3556
Query	3545	CTTCTTGGAACACGTGATCAATGGGGTATGCTGGAATGTTACACAGGGGCGGAACGAG	3604
Sbjct	3557	CTTCTTGGAACACGTGATCAATGGGGTATGCTGGAATGTTACACAGGGGCGGAACGAG	3616
Query	3605	GACCATCGCATCACCAAGGGTCTGTCATCCAGATGTATACCAATGTGGACCAAGACCT	3664
Sbjct	3617	GACCATCGCATCACCAAGGGTCTGTCATCCAGATGTATACCAATGTGGACCAAGACCT	3676
Query	3665	TGTGGGCTGGCCGCTCTCAAGGTTCCGCTCATGACACCTGTACCTGCGGCTCTCTC	3724
Sbjct	3677	TGTGGGCTGGCCGCTCTCAAGGTTCCGCTCATGACACCTGTACCTGCGGCTCTCTC	3736
Query	3725	GGACCTTTACCTGGTCACGAGGACGCGCATGTCAATCCCGTGGCGGGGAGGTGATAG	3784
Sbjct	3737	GGACCTTTACCTGGTCACGAGGACGCGCATGTCAATCCCGTGGCGGGGAGGTGATAG	3796
Query	3785	CAGGGGTAGCCTGCTTTTCGCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCC	3844
Sbjct	3797	CAGGGGTAGCCTGCTTTTCGCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCC	3856
Query	3845	GCTGTTGTGCCCCGCGGGACACGCCGTGGGCTATTAGGGCCGCGGTGTGCACCCGTGG	3904
Sbjct	3857	GCTGTTGTGCCCCGCGGGACACGCCGTGGGCTATTAGGGCCGCGGTGTGCACCCGTGG	3916
Query	3905	AGTGCTAAAGCGGTGGACTTTATCCCTGTGAGAACCTAGGGACAACCATGAGATCCCC	3964
Sbjct	3917	AGTGCTAAAGCGGTGGACTTTATCCCTGTGAGAACCTAGGGACAACCATGAGATCCCC	3976
Query	3965	GGTGTTACGGACAACCTCTCTCCACGACGAGTGCCCCAGAGCTTCCAGGTGGCCACCT	4024
Sbjct	3977	GGTGTTACGGACAACCTCTCTCCACGACGAGTGCCCCAGAGCTTCCAGGTGGCCACCT	4036
Query	4025	GCATGCTCCACCGGCAGCGTAAGAGCACCAAGTCCCGGCTGCGTACGACAGCCAGGG	4084
Sbjct	4037	GCATGCTCCACCGGCAGCGTAAGAGCACCAAGTCCCGGCTGCGTACGACAGCCAGGG	4096
Query	4085	CTACAAGGTGTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACAT	4144
Sbjct	4097	CTACAAGGTGTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACAT	4156
Query	4145	GTCCAAGGCCCATGGGGTTGATCTTAATATCAGGACCGGGGTGAGAACATTAACACTGG	4204
Sbjct	4157	GTCCAAGGCCCATGGGGTTGATCTTAATATCAGGACCGGGGTGAGAACATTAACACTGG	4216
Query	4205	CAGCCCCATACGTACTCCACCTACGGCAAGTTCCTTGCCGACGCGGGGTGCTCAGGAGG	4264
Sbjct	4217	CAGCCCCATACGTACTCCACCTACGGCAAGTTCCTTGCCGACGCGGGGTGCTCAGGAGG	4276
Query	4265	TGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGG	4324
Sbjct	4277	TGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGG	4336
Query	4325	CATCGGCACGTCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTGCCAC	4384
Sbjct	4337	CATCGGCACGTCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTGCCAC	4396
Query	4385	TGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGGTGCTCTGTC	4444
Sbjct	4397	TGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGGTGCTCTGTC	4456
Query	4445	CACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGG	4504
Sbjct	4457	CACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGG	4516
Query	4505	AAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCAGCAGCTCGCCGCGAAGCTGGT	4564
Sbjct	4517	AAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCAGCAGCTCGCCGCGAAGCTGGT	4576
Query	4565	CGCATTTGGGCATCAATGCCGTGGGCTACTACCGCGGTCTTGACGTGTCTGTATCCGCAC	4624

Sbjct	4577	CGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGCTTGACGTGCTGTCATCCCGAC	4636
Query	4625	CAGCGGCGATGTTGTGCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTT	4684
Sbjct	4637	CAGCGGCGATGTTGTGCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTT	4696
Query	4685	CGACTCTGTGATAGACTGCAACACGTGTGTCCTACTCAGACAGTCGATTTACGCGCTTGACCC	4744
Sbjct	4697	CGACTCTGTGATAGACTGCAACACGTGTGTCCTACTCAGACAGTCGATTTACGCGCTTGACCC	4756
Query	4745	TACCTTTTACCATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCG	4804
Sbjct	4757	TACCTTTTACCATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCG	4816
Query	4805	GGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTTGTGGCACCAGGGGAGCGCCC	4864
Sbjct	4817	GGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTTGTGGCACCAGGGGAGCGCCC	4876
Query	4865	CTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTA	4924
Sbjct	4877	CTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTA	4936
Query	4925	TGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGCT	4984
Sbjct	4937	TGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGCT	4996
Query	4985	TCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTTCACTCATAT	5044
Sbjct	4997	TCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTTCACTCATAT	5056
Query	5045	AGATGCCCACTTTTTATCCAGACAAAGCAGAGTGGGGAGAATTTCTTACCTGGTAGC	5104
Sbjct	5057	AGATGCCCACTTTTTATCCAGACAAAGCAGAGTGGGGAGAATTTCTTACCTGGTAGC	5116
Query	5105	GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTTCCCCATCGTGGGACAGATGTG	5164
Sbjct	5117	GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTTCCCCATCGTGGGACAGATGTG	5176
Query	5165	GAAGTGTTTGATCCGCCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACAGACT	5224
Sbjct	5177	GAAGTGTTTGATCCGCCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACAGACT	5236
Query	5225	GGGCGCTGTTTCAAGATGAAGTCAACCTGACGACCCCAATACCAAATACATCATGACATG	5284
Sbjct	5237	GGGCGCTGTTTCAAGATGAAGTCAACCTGACGACCCCAATACCAAATACATCATGACATG	5296
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Sbjct	5297	CATGTGCGGCGACCTGGAGGTGCTCAGCAGCACCTGGGTGCTCGTTGGCGGCTCTCTGGC	5356
Query	5345	TGCTCTGGCGCGCTATTGCTGTCAACAGGCTGCGTGGTATAGTGGGCAGGATCGTCTT	5404
Sbjct	5357	TGCTCTGGCGCGCTATTGCTGTCAACAGGCTGCGTGGTATAGTGGGCAGGATCGTCTT	5416
Query	5405	GTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTCTCTACACAGGAGTTCGATGAGAT	5464
Sbjct	5417	GTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTCTCTACACAGGAGTTCGATGAGAT	5476
Query	5465	GGAAGAGTGCTCTCAGCACTTACCGTACATCAGCAGGGGATGATGCTCGCTGAGCAGTT	5524
Sbjct	5477	GGAAGAGTGCTCTCAGCACTTACCGTACATCAGCAGGGGATGATGCTCGCTGAGCAGTT	5536
Query	5525	CAAGCAGAAGGCGCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCC	5584
Sbjct	5537	CAAGCAGAAGGCGCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCC	5596
Query	5585	TGCTGTCCAGACCAACTGGCAGAAATCGAGGTCTTTTGGGCGAAGCACATGTGGAATTT	5644
Sbjct	5597	TGCTGTCCAGACCAACTGGCAGAAATCGAGGTCTTTTGGGCGAAGCACATGTGGAATTT	5656
Query	5645	CATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGC	5704
Sbjct	5657	CATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGC	5716
Query	5705	TTCAATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCCCTCT	5764

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Sbjct  5717 TTCATTGATGGCTTTTACAGCTGCCGTCACGAGCCCACTAACCAGTGGCCAAACCTCTCT 5776
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Sbjct  5777 CTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCGCCCCCGGTGCCGCTACTGC 5836
Query  5825 CTTTGTGGGTGCTGGCTAGCTGGCGCCGCCATCGGACGCGTTGACTGGGGAAGTCTCT 5884
Sbjct  5837 CTTTGTGGGTGCTGGCTAGCTGGCGCCGCCATCGGACGCGTTGACTGGGGAAGTCTCT 5896
Query  5885 CGTGACATTCTTGCAGGGTATGGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGAT 5944
Sbjct  5897 CGTGACATTCTTGCAGGGTATGGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGAT 5956
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Sbjct  5957 CATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGGCATCTCTCT 6016
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Sbjct  6017 GCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTGGCCC 6076
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Sbjct  6077 GGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCTCCCGGGGGAACCA 6136
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Sbjct  6137 TGTITCCCCACGCACTACGTGCCGGAGAGCGATGACAGCCGCCCGCGTCACTGCCATACT 6196
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Sbjct  6197 CAGCAGCCTCACTGTAAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTG 6256
Query  6245 TACCACTCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT 6304
Sbjct  6257 TACCACTCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT 6316
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Query  6425 CTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCTGTCGG 6484
Sbjct  6437 CTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCTGTCGG 6496
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Sbjct  6497 TCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCATTAACGCCTACACACAGGG 6556
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Sbjct  6617 GGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGA 6676
Query  6665 CAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTACACAGAATTTGACAGGGGT 6724
Sbjct  6677 CAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTACACAGAATTTGACAGGGGT 6736
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Sbjct  6737 GCGCCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGTCTGCGGGAGGAGGTATCATTAG 6796
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Sbjct  6797 AGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGGCCGGAACCGGACGT 6856
Query  6845 AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGAG 6904

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Sbjct	6857	AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGGCGGCGGGAG	6916
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Sbjct	6917	AAGGTTGGCGAGAGGGTCAACCCCTTCTATGCCAGCTCCCTCGGTAGCCAGCTGTCCCG	6976
Query	6965	TCATCTCTCAAGGCAACTTGCACCGCAACCATGACTCCCTGACGCCGAGCTCATAGA	7024
Sbjct	6977	TCATCTCTCAAGGCAACTTGCACCGCAACCATGACTCCCTGACGCCGAGCTCATAGA	7036
Query	7025	GGCTAACCTCCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAA	7084
Sbjct	7037	GGCTAACCTCCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAA	7096
Query	7085	CAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGT	7144
Sbjct	7097	CAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGT	7156
Query	7145	CTCCGTACCTGCGAGAAATTCGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCGTCTG	7204
Sbjct	7157	CTCCGTACCTGCGAGAAATTCGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCGTCTG	7216
Query	7205	GGCGCGGCGGCGACTACAACCCCGCTAGTAGAGACGTGGAAGAACGCTGACTACGAACC	7264
Sbjct	7217	GGCGCGGCGGCGACTACAACCCCGCTAGTAGAGACGTGGAAGAACGCTGACTACGAACC	7276
Query	7265	ACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCTCCGCTCG	7324
Sbjct	7277	ACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGCCTCCGCTCG	7336
Query	7325	GA AAAAGCGTAGCGGTGGTCTCACCGAATCAACCTATCTACTGCTTGGCCGAGCTTGC	7384
Sbjct	7337	GA AAAAGCGTAGCGGTGGTCTCACCGAATCAACCTATCTACTGCTTGGCCGAGCTTGC	7396
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Sbjct	7397	CACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATC	7456
Query	7445	CTCTGAGCCCGCCCTTCTGGCTG GGCGGCG GACTCCGACGTTGAGTCTTATCTTCCAT	7504
Sbjct	7457	CTCTGAGCCCGCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCTTATCTTCCAT	7516
Query	7505	GGCGGCG TTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGGTCGACGGT	7564
Sbjct	7517	GGCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGGGACGGGTATGGTCGACGGT	7576
Query	7565	CAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTATTCTTGGACAGG	7624
Sbjct	7577	CAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTATTCTTGGACAGG	7636
Query	7625	CGCCTCTGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACCTGAGCAA	7684
Sbjct	7637	CGCCTCTGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACCTGAGCAA	7696
Query	7685	CTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTACCGCAGTGCTTGCCAAAG	7744
Sbjct	7697	CTCGTTGCTACGCCATCACAATCTGGTGATTCCACCACCTTACCGCAGTGCTTGCCAAAG	7756
Query	7745	GCAGAAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACGAGGACGTGCT	7804
Sbjct	7757	GCAGAAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACGAGGACGTGCT	7816
Query	7805	CAAGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGC	7864
Sbjct	7817	CAAGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGC	7876
Query	7865	TTGACGCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGT	7924
Sbjct	7877	TTGACGCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGT	7936
Query	7925	CCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTCTGGA	7984
Sbjct	7937	CCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTCTGGA	7996
Query	7985	AGACAGTGTAACACCAATAGACACTACCATCATGGCCAAAGAACGAGGTTTTCTGCGTTCA	8044

Sbjct	7997	AGACAGTGTAAACCAATAGACACTACCATCATGGCCAAGAAGAGGTTTTCTGCGTTCA	8056
Query	8045	GCCTGAGAAGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCGTGGC	8104
Sbjct	8057	GCCTGAGAAGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCGTGGC	8116
Query	8105	CGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCTGGCCGTGATGGG	8164
Sbjct	8117	CGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCTGGCCGTGATGGG	8176
Query	8165	AAGCTCCTACGGATTCCAATACTACCAGGACAGCGGTTGAATTCTCTGTCGAAGCGTG	8224
Sbjct	8177	AAGCTCCTACGGATTCCAATACTACCAGGACAGCGGTTGAATTCTCTGTCGAAGCGTG	8236
Query	8225	GAAGTCCAAGAAGACCCCGATGGGGTTCCTGATGATACCCGCTGTTTGTACTCCACAGT	8284
Sbjct	8237	GAAGTCCAAGAAGACCCCGATGGGGTTCCTGATGATACCCGCTGTTTGTACTCCACAGT	8296
Query	8285	CACCTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCA	8344
Sbjct	8297	CACCTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCA	8356
Query	8345	AGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTATGTGTGGGGGCCCTCTTACCAA	8404
Sbjct	8357	AGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTATGTGTGGGGGCCCTCTTACCAA	8416
Query	8405	TTCAAGGGGGGAAACTCGCGCTACCGCAGGTGCCCGCGAGCGCGTACTGACAACTAG	8464
Sbjct	8417	TTCAAGGGGGGAAACTCGCGCTACCGCAGGTGCCCGCGAGCGCGTACTGACAACTAG	8476
Query	8465	CTGTGGTAACACCTCTCACTTGTCTACATCAAGGCCGGGCGAGCCTGTCGAGCCGAGGGCT	8524
Sbjct	8477	CTGTGGTAACACCTCTCACTTGTCTACATCAAGGCCGGGCGAGCCTGTCGAGCCGAGGGCT	8536
Query	8525	CCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAGTGCGGG	8584
Sbjct	8537	CCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAGTGCGGG	8596
Query	8585	GGTCCAGGAGGACGCGCGGAGCCTGAGAGCCTTACCGAGGCTATGACCAGGTACTCCGC	8644
Sbjct	8597	GGTCCAGGAGGACGCGCGGAGCCTGAGAGCCTTACCGAGGCTATGACCAGGTACTCCGC	8656
Query	8645	CCCCCCCCGGGGCCCCCAACAACAGAAATACGACTTGGAGCTTATAACATCATGCTCCTC	8704
Sbjct	8657	CCCCCCCCGGGGCCCCCAACAACAGAAATACGACTTGGAGCTTATAACATCATGCTCCTC	8716
Query	8705	CAACGTGTTCAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCC	8764
Sbjct	8717	CAACGTGTTCAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCC	8776
Query	8765	TACAACCCCTTCGCGAGAGCCGCGTGGGAGACAGCAAGACACATCCAGTCAATTCCTG	8824
Sbjct	8777	TACAACCCCTTCGCGAGAGCCGCGTGGGAGACAGCAAGACACATCCAGTCAATTCCTG	8836
Query	8825	GCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGCGGAGGATGATGATGACCCA	8884
Sbjct	8837	GCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGCGGAGGATGATGATGACCCA	8896
Query	8885	TTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCCTTAACTGTGAGATCTA	8944
Sbjct	8897	TTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCCTTAACTGTGAGATCTA	8956
Query	8945	CGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCAITCAAAGACTCCATGG	9004
Sbjct	8957	CGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCAITCAAAGACTCCATGG	9016
Query	9005	CCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATG	9064
Sbjct	9017	CCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATG	9076
Query	9065	CCTCAGAAAACTTGGGGTCCCGCCTTGCGAGCTTGGAGACACCGGGCCCGAGCGTCCG	9124
Sbjct	9077	CCTCAGAAAACTTGGGGTCCCGCCTTGCGAGCTTGGAGACACCGGGCCCGAGCGTCCG	9136
Query	9125	CGCTAGGCTTCTGTCAGAGGAGGACAGGGCTGCCATATGTGGCAAGTACCTTTCAACTG	9184

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Sbjct  9137  CGCTAGGCTTCTGTCCAGAGGAGGCGAGGGCTGCTATATGTTGGCAAGTACCTCTTCAACTG  9196
Query   9185  GGCAGTAAGAACAAGGCTCAAACTCACTCCAATAGCGGGCGCTGGCCGGCTGGACTTTGTC  9244
Sbjct  9197  GGCAGTAAGAACAAGGCTCAAACTCACTCCAATAGCGGGCGCTGGCCGGCTGGACTTTGTC  9256
Query   9245  CGGTTGGTTACACGGCTGGCTACAGCGGGGAGACATTATCAGACGCTGTCTCATGCCCG  9304
Sbjct  9257  CGGTTGGTTACACGGCTGGCTACAGCGGGGAGACATTATCAGACGCTGTCTCATGCCCG  9316
Query   9305  GCCCCGCTGGTTCTGTTTTGCTTACTCTGCTCGCTGCAGGGGTAGGCATCTACCTCCT  9364
Sbjct  9317  GCCCCGCTGGTTCTGTTTTGCTTACTCTGCTCGCTGCAGGGGTAGGCATCTACCTCCT  9376
Query   9365  CCCCACCGCATGAAGGTTGGGGTAAACACTCCGGCCCTCTTAAGCCATTTCCTGTTTTT  9424
Sbjct  9377  CCCCACCGCATGAAGGTTGGGGTAAACACTCCGGCCCTCTTAAGCCATTTCCTGTTTTT  9436
Query   9425  TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  9484
Sbjct  9437  TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  9496
Query   9485  TTTTTCCCTCTTTAAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGT  9544
Sbjct  9497  TTTTTCCCTCTTTAAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGT  9556
Query   9545  CCGTGAGCCGCGATGACTGCAGAGAGTGTCTGATCTGCGCTCTCTGCAGATCATGT  9599
Sbjct  9557  CCGTGAGCCGCGATGACTGCAGAGAGTGTCTGATCTGCGCTCTCTGCAGATCATGT  9611

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Score = 1118 bits (605), Expect = 0.0
 Identities = 810/906 (89%), Gaps = 26/906 (2%)
 Strand=Plus/Plus

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Query   1      GGCAGCCCCCTGATGGGGGCGCACTCCACCATGAATCACTCCCTCTGAGGAACACTG  60
Sbjct   1      GGCAGCCCCCTGATGGGGGCGCACTCCACCATGAATCACTCCCTCTGAGGAACACTG  60

Query   61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCGACGCTCCAGGAC  120
Sbjct   61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCGACGCTCCAGGAC  120

Query   121     ccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG  180
Sbjct   121     CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG  180

Query   181     GACGACCGGGTCCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC  240
Sbjct   181     GACGACCGGGTCCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC  240

Query   241     GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGG  300
Sbjct   241     GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGG  300

Query   301     GTGCTTGCAGATGCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC  360
Sbjct   301     GTGCTTGCAGATGCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC  360

Query   361     CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCCAACGAGAGCTCAAGTTCCCGGGTG  420
Sbjct   361     CTCAAAGAAAAACCAAGAAACCAACCGTCGCCCAACGAGAGCTTAAGTTCCCGGGCG  420

Query   421     GCGGTGAGATCGTTTGGTGGAGTTTACTTGTGTCGCGCGAGGGGCCCTAGATTGGGTGTG  480
Sbjct   421     GCGGCGAGATCGTTTGGGGAAGTATACTTGTGTCGCGCGAGGGGCCCTAGATTGGGTGTG  480

Query   481     GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTACGCCTATCCCCA  540
Sbjct   481     GCGCGACAAGGAAGACTTCCGAGCGGTCCAGCCAGCTGGAAGGCGCCAGCCCATCCCTA  540

Query   541     AGGCA-CGTGCGC-CCGAG-GGCAGGA-CCTGGGCTCAGCCCGGGTACCCCTTGGCCCCCT  596
Sbjct   541     AAG-ATCGCGC-CTCC-ACTGGCAA-ATCCTGGGGAACACGAGGATACCCCTGGCCCCCT  596

Query   597     TATGGCAATGAGGGT-TGCGGGTGGCGGGATGGCTCTCTCCCCGTGGCTCTCGGCC  655

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9/8/2009

Sbjct	2371	CCA--T-TTTACCTTGCTCTTACTCGGA-CTTGCCCGCCTTGTCGACTGGTCTTC-TC	2425
Query	2414	CTCTCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCG-CGT	2472
Sbjct	2426	CTCTCACCAGAACATCGTGGACGTACAATTCATGTATGGCTA---TC-A-CCT-GCCCT	2479
Query	2473	C-C-TGGGCCAT--TAAG-TGGGAGTACGTCGTTCTCTGTTCTCTGCTT-CCAGACG	2526
Sbjct	2480	CACAAAATACATCGTCCGATGGGAGTGGGTAATCTTATTCTGCT-CTTAGCGGACG	2538
Query	2527	CGC-GCGTCTGCTCCTGCTTGTGGATGATGTAC-TCATATCCCAAGCGGAGCGCGCTTT	2584
Sbjct	2539	C-CAGGGTTTGGCGCTGCTTATGGATGCTCAT-CTTGTGGGCCAGGCCGAGCAGCTTT	2596
Query	2585	GGAGAACTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGCTCTTGTGTCCTT	2644
Sbjct	2597	GGAGAACTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGCTCTTGTGTCCTT	2656
Query	2645	CCTCGTGTCTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGAGCGGTCTA	2704
Sbjct	2657	CCTCGTGTCTCTGCTTTGCGTGGTATCTGAAGGGTAGTGGGTGCCCGAGCGGTCTA	2716
Query	2705	CGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCTGCTGGCGTTGCCTACGCGGCATA	2764
Sbjct	2717	CGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCTGCTGGCGTTGCCTACGCGGCATA	2776
Query	2765	CGCACTGGACACGGAGGTGGCCGCTGCTGTGGCGGCTTGTCTTGTGCGGGTAATGGC	2824
Sbjct	2777	TGCACCTGGACACGGAGGTGGCCGCTGCTGTGGCGGCTTGTCTTGTGCGGGTAATGGC	2836
Query	2825	GCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTA	2884
Sbjct	2837	GCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTA	2896
Query	2885	TTTCTGACACAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCACTCCAGG	2944
Sbjct	2897	TTTCTGACACAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCACTCCAGG	2956
Query	2945	GGGCGCGATGCCGTCATCTTACTCATGTGTAGTACACCCGACCTGGTATTGACAT	3004
Sbjct	2957	GGGCGCGATGCCGTCATCTTACTCATGTGTAGTACACCCGACCTGGTATTGACAT	3016
Query	3005	CACAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAA	3064
Sbjct	3017	CACAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAA	3076
Query	3065	AGTCCCTACTCTGTCGCGTTCAAGGCCTTCTCCGGAATCTGCGCGTAGCGCGGAAGAT	3124
Sbjct	3077	AGTCCCTACTCTGTCGCGTTCAAGGCCTTCTCCGGAATCTGCGCGTAGCGCGGAAGAT	3136
Query	3125	AGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTA	3184
Sbjct	3137	AGCCGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTA	3196
Query	3185	TGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCAACAAGCGCTGCGAGATCTGGC	3244
Sbjct	3197	TGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCAACAAGCGCTGCGAGATCTGGC	3256
Query	3245	CGTGGCTGTGGAACCAAGTCGCTCTTCCCGAATGGAGACCAAGCTCATCAGTGGGGGGC	3304
Sbjct	3257	CGTGGCTGTGGAACCAAGTCGCTCTTCCCGAATGGAGACCAAGCTCATCAGTGGGGGGC	3316
Query	3305	AGATACCGCCGCGTGGGTGACATCATCAACGGCTTGCCCGTCTTGCCCGTAGGGGGCA	3364
Sbjct	3317	AGATACCGCCGCGTGGGTGACATCATCAACGGCTTGCCCGTCTTGCCCGTAGGGGGCA	3376
Query	3365	GGAGATACTGCTTGGGCCAGCCGACGAATGGTCTCCAAGGGGTGGAGGTTGCTGCGGCC	3424
Sbjct	3377	GGAGATACTGCTTGGGCCAGCCGACGAATGGTCTCCAAGGGGTGGAGGTTGCTGCGGCC	3436
Query	3425	CATCACGGCTACGCCCCAGACGAGAGGCGCTCCTAGGGTGTATAATCACCAGCCTGAC	3484
Sbjct	3437	CATCACGGCTACGCCCCAGACGAGAGGCGCTCCTAGGGTGTATAATCACCAGCCTGAC	3496
Query	3485	TGGCCGGGACAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCACTGCTACCCAAAC	3544


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Sbjct 3497 TGGCCGGGACAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCCAAC 3556
Query 3545 CTTCTTGGCAACGTGATCAATGGGGTATGCTGGAGTGTCTACCACGGGGCGGACGAG 3604
Sbjct 3557 CTTCTTGGCAACGTGATCAATGGGGTATGCTGGAGTGTCTACCACGGGGCGGACGAG 3616
Query 3605 GACCATCGCATCACCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCAAGACCT 3664
Sbjct 3617 GACCATCGCATCACCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCAAGACCT 3676
Query 3665 TGTGGGCTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCTGTACTCGGGCTCTCT 3724
Sbjct 3677 TGTGGGCTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCTGTACTCGGGCTCTCT 3736
Query 3725 GGACCTTTACCTGGTACGAGGCACGCCGATGTCATTCCTGCGCCGGCGAGGTGATAG 3784
Sbjct 3737 GGACCTTTACCTGGTACGAGGCACGCCGATGTCATTCCTGCGCCGGCGAGGTGATAG 3796
Query 3785 CAGGGGTAGCCTGCTTTTCGCCCGGCCCAATTTCTACTTGAAAGGCTCCTCGGGGGTCC 3844
Sbjct 3797 CAGGGGTAGCCTGCTTTTCGCCCGGCCCAATTTCTACTTGAAAGGCTCCTCGGGGGTCC 3856
Query 3845 GCTGTTGTGCCCCGCGGGACACGCCGTGGGCTATTAGGGCCGCGGTGTGCACCCGTGG 3904
Sbjct 3857 GCTGTTGTGCCCCGCGGGACACGCCGTGGGCTATTAGGGCCGCGGTGTGCACCCGTGG 3916
Query 3905 AGTGCTTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCC 3964
Sbjct 3917 AGTGCTTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCC 3976
Query 3965 GGTGTTACGGGCAACCTCTCTCCACGACAGTGCCCCAGAGCTTCCAGGTGGCCACCT 4024
Sbjct 3977 GGTGTTACGGGCAACCTCTCTCCACGACAGTGCCCCAGAGCTTCCAGGTGGCCACCT 4036
Query 4025 GCATGCTCCACCGGCAGCGGTAAAGAGCACCAAGGTCCTCGGCTGCGTACGACGCCAGGG 4084
Sbjct 4037 GCATGCTCCACCGGCAGCGGTAAAGAGCACCAAGGTCCTCGGCTGCGTACGACGCCAGGG 4096
Query 4085 CTACAAGGTGTGGTGCTCAACCCCTCTGTGTGCAACGCTGGGCTTTGGTGCTTACAT 4144
Sbjct 4097 CTACAAGGTGTGGTGCTCAACCCCTCTGTGTGCAACGCTGGGCTTTGGTGCTTACAT 4156
Query 4145 GTCCAAGGCCATGGGGTTGATCTTAATATCAGGACCGGGGTGAGAACATTAACACTGG 4204
Sbjct 4157 GTCCAAGGCCATGGGGTTGATCTTAATATCAGGACCGGGGTGAGAACATTAACACTGG 4216
Query 4205 CAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGG 4264
Sbjct 4217 CAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGG 4276
Query 4265 TGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGATGCCACATCCATCTTGGG 4324
Sbjct 4277 TGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGATGCCACATCCATCTTGGG 4336
Query 4325 CATCGGCACTGCTCTTGACCAAGCAGAGACTGCGGGGCGAGACTGGTTGTGCTCGCCAC 4384
Sbjct 4337 CATCGGCACTGCTCTTGACCAAGCAGAGACTGCGGGGCGAGACTGGTTGTGCTCGCCAC 4396
Query 4385 TGCTACCCCTCCGGGCTCCGTCACGTGTGTCCTTAACTCGAGGAGGTGCTCTGTC 4444
Sbjct 4397 TGCTACCCCTCCGGGCTCCGTCACGTGTGTCCTTAACTCGAGGAGGTGCTCTGTC 4456
Query 4445 CACCACGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGG 4504
Sbjct 4457 CACCACGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGG 4516
Query 4505 AAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCAGCAGGCTCGCCGCGAAGCTGGT 4564
Sbjct 4517 AAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCAGCAGGCTCGCCGCGAAGCTGGT 4576
Query 4565 CGCATTGGGCATCAATGCCGTGGGCTACTACCGCGGCTTTGACGTGTCTGTATCCCGAC 4624
Sbjct 4577 CGCATTGGGCATCAATGCCGTGGGCTACTACCGCGGCTTTGACGTGTCTGTATCCCGAC 4636
Query 4625 CAGCGGCGATGTTGTCTGTCTGTGACCGATGCTCTCATGACTGGCTTTACCGGCGACTT 4684
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Sbjct	4637	CACGCGCGATGTTGTCTGCTGCTGACGACGATGCTCTCATGACTGGCTTTACCGCGCACTT	4696
Query	4685	CGACTCTGTGATAGACTGCAACACGTGTGTCTACTAGACAGTCGATTTCAGCCTTGACCC	4744
Sbjct	4697	CGACTCTGTGATAGACTGCAACACGTGTGTCTACTAGACAGTCGATTTCAGCCTTGACCC	4756
Query	4745	TACCTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCGC	4804
Sbjct	4757	TACCTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCGC	4816
Query	4805	GGGCGAGGATGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGAGCGCCC	4864
Sbjct	4817	GGGCGAGGATGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGAGCGCCC	4876
Query	4865	CTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTA	4924
Sbjct	4877	CTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTA	4936
Query	4925	TGAGCTCAGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGCT	4984
Sbjct	4937	TGAGCTCAGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGCT	4996
Query	4985	TCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCCTCATAT	5044
Sbjct	4997	TCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCTCCTCATAT	5056
Query	5045	AGATGCCCACTTTTTATCCAGACAAGACAGAGTGGGGAGAACTTTCCTTACTCGGTAGC	5104
Sbjct	5057	AGATGCCCACTTTTTATCCAGACAAGACAGAGTGGGGAGAACTTTCCTTACTCGGTAGC	5116
Query	5105	GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCCCCCATCTGTGGACCAGATGTG	5164
Sbjct	5117	GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCCCCCATCTGTGGACCAGATGTG	5176
Query	5165	GAAGTGTTTGATCCGCTTAAACCCACCCCTCCATGGGCCAACCCCTGCTATACAGACT	5224
Sbjct	5177	GAAGTGTTTGATCCGCTTAAACCCACCCCTCCATGGGCCAACCCCTGCTATACAGACT	5236
Query	5225	GGGCGTGTTCAGAATGAAGTCAACCTGACGCAACCAATCACCAAATACATCATGACATG	5284
Sbjct	5237	GGGCGTGTTCAGAATGAAGTCAACCTGACGCAACCAATCACCAAATACATCATGACATG	5296
Query	5285	CATGTCGGCCGACCTGGAGTGTGTCACGAGCACTGGGTGCTCGTTGGCGGCGTCTGGC	5344
Sbjct	5297	CATGTCGGCCGACCTGGAGTGTGTCACGAGCACTGGGTGCTCGTTGGCGGCGTCTGGC	5356
Query	5345	TGCTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCAATAGTGGGAGGATCGTCTT	5404
Sbjct	5357	TGCTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCAATAGTGGGAGGATCGTCTT	5416
Query	5405	GTCGCGGAAGCCGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGAT	5464
Sbjct	5417	GTCGCGGAAGCCGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGAT	5476
Query	5465	GGAGAGTGCTCTCAGCACTTACCGTACATCAGCAAGGGAATGATGCTCGCTGAGCAGTT	5524
Sbjct	5477	GGAGAGTGCTCTCAGCACTTACCGTACATCAGCAAGGGAATGATGCTCGCTGAGCAGTT	5536
Query	5525	CAAGCAGAAGGCCCTCGGCCCTCTGAGACCGCGTCCCGCCATGCAGAGGTTATCACCCC	5584
Sbjct	5537	CAAGCAGAAGGCCCTCGGCCCTCTGAGACCGCGTCCCGCCATGCAGAGGTTATCACCCC	5596
Query	5585	TGCTGTCCAGACCAACTGGCAGAACTCGAGGCTTTTGGGCGAAGCACATGTGGAATTT	5644
Sbjct	5597	TGCTGTCCAGACCAACTGGCAGAACTCGAGGCTTTTGGGCGAAGCACATGTGGAATTT	5656
Query	5645	CATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCCGCAATTGC	5704
Sbjct	5657	CATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCTGGTAACCCCGCAATTGC	5716
Query	5705	TTCAATTGATGGCTTTTACAGCTGCGGTCACGAGCCCACTAACCCTGGCCAAACCTTCT	5764
Sbjct	5717	TTCAATTGATGGCTTTTACAGCTGCGGTCACGAGCCCACTAACCCTGGCCAAACCTTCT	5776
Query	5765	CTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCCGCGCCCCGGTGGCGCTACTGC	5824

Sbjct	5777	 CTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGTGCCGCTACTGC	5836
Query	5825	 CTTTGTGGGTGCTGGGCTAGCTGGCGCCGCCATCGGCAGCGTTGGAATGGGGAAGTCTCT	5884
Sbjct	5837	 CTTTGTGGGTGCTGGGCTAGCTGGCGCCGCCATCGGCAGCGTTGGAATGGGGAAGTCTCT	5896
Query	5885	 CTGTGACATTCTTGCAGGGTATGGCGCGGGCTGGCGGGAGCTCTGTAGCATTCAGAT	5944
Sbjct	5897	 CTGTGACATTCTTGCAGGGTATGGCGCGGGCTGGCGGGAGCTCTGTAGCATTCAGAT	5956
Query	5945	 CATGAGCGGTGAGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCTCTCT	6004
Sbjct	5957	 CATGAGCGGTGAGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCTCTCT	6016
Query	6005	 GCCTGGAGCCCTTGTAGTGGTGTGGTCTGGCGACAATACTGCGCCGGCAGTTGGCCC	6064
Sbjct	6017	 GCCTGGAGCCCTTGTAGTGGTGTGGTCTGGCGACAATACTGCGCCGGCAGTTGGCCC	6076
Query	6065	 GGCGGAGGGGCGAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGAACCA	6124
Sbjct	6077	 GGCGGAGGGGCGAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGAACCA	6136
Query	6125	 TGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACT	6184
Sbjct	6137	 TGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACT	6196
Query	6185	 CAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTG	6244
Sbjct	6197	 CAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTG	6256
Query	6245	 TACCACTCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT	6304
Sbjct	6257	 TACCACTCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT	6316
Query	6305	 GAGCGACCTTAAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCCTGGGATTCCTT	6364
Sbjct	6317	 GAGCGACCTTAAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCCTGGGATTCCTT	6376
Query	6365	 TGTTCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCG	6424
Sbjct	6377	 TGTTCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCG	6436
Query	6425	 CTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCTGTCGG	6484
Sbjct	6437	 CTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCTGTCGG	6496
Query	6485	 TCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAACGCCTACACACGGG	6544
Sbjct	6497	 TCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAACGCCTACACACGGG	6556
Query	6545	 CCCCGTACTCCCCCTTCTGCGCCGAACATAAGTTGCGCCTGTGGAGGGTGTCTGCAGA	6604
Sbjct	6557	 CCCCGTACTCCCCCTTCTGCGCCGAACATAAGTTGCGCCTGTGGAGGGTGTCTGCAGA	6616
Query	6605	 GGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGA	6664
Sbjct	6617	 GGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGA	6676
Query	6665	 CAATCTTAAATGCCCGTGCCAGATCCCATCGCCGGAATTTTTCACAGAATTGACAGGGGT	6724
Sbjct	6677	 CAATCTTAAATGCCCGTGCCAGATCCCATCGCCGGAATTTTTCACAGAATTGACAGGGGT	6736
Query	6725	 GCGCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGTCTGCGGGAGGAGTATCAATCAG	6784
Sbjct	6737	 GCGCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGTCTGCGGGAGGAGTATCAATCAG	6796
Query	6785	 AGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCAGGCCGAACCGGACGT	6844
Sbjct	6797	 AGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCAGGCCGAACCGGACGT	6856
Query	6845	 AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGAG	6904
Sbjct	6857	 AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGAG	6916
Query	6905	 AAGGTTGGCGAGAGGTTACCCCCCTTCTATGCCAGCTCCTCGGCTAGCCAGCTGTCCGC	6964

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Sbjct 6917  |AAGTTGGCGAGAGGGTCAACCCCTTCTATGCGCCAGCTCCTCGGCTAGCCAGCTGTCGCG| 6976
Query 6965  |TCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCATAGA| 7024
Sbjct 6977  |TCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCATAGA| 7036
Query 7025  |GGCTAACCTCCTGTGGAGGCAGGAGATGGCGGGCAACATCACCAGGGTTGAGTCAGAGAA| 7084
Sbjct 7037  |GGCTAACCTCCTGTGGAGGCAGGAGATGGCGGGCAACATCACCAGGGTTGAGTCAGAGAA| 7096
Query 7085  |CAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGT| 7144
Sbjct 7097  |CAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGT| 7156
Query 7145  |CTCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTGCGCCGGCGCTCCCGCTCTG| 7204
Sbjct 7157  |CTCCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTGCGCCGGCGCTCCCGCTCTG| 7216
Query 7205  |GGCGGGCGCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACC| 7264
Sbjct 7217  |GGCGGGCGCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACC| 7276
Query 7265  |ACCTGTGGTCCATGGCTGCCGCTACCACCTCCACGGTCCCTCCTGTGCTCCGCTCTG| 7324
Sbjct 7277  |ACCTGTGGTCCATGGCTGCCGCTACCACCTCCACGGTCCCTCCTGTGCTCCGCTCTG| 7336
Query 7325  |GAAAAAGCGTACGGTGGTCTCACCGAATCAACCCATCTACTGCCTTGGCCGAGCTTGC| 7384
Sbjct 7337  |GAAAAAGCGTACGGTGGTCTCACCGAATCAACCCATCTACTGCCTTGGCCGAGCTTGC| 7396
Query 7385  |CACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGGGACAATACGACAACATC| 7444
Sbjct 7397  |CACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGGGACAATACGACAACATC| 7456
Query 7445  |CTCTGAGCCCGCCCTTCTGGCTGccccccGACTCCGACGTTGAGTCCTATTCTTCCAT| 7504
Sbjct 7457  |CTCTGAGCCCGCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTATTCTTCCAT| 7516
Query 7505  |GccccccTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGGTCGACGGT| 7564
Sbjct 7517  |GCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGGTCGACGGT| 7576
Query 7565  |CAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTTGACAGG| 7624
Sbjct 7577  |CAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTTGACAGG| 7636
Query 7625  |CGCACTCGTCAACCCGTGCGCTGCGGAAGAACAAAACTGCCATCAACGCACCTGAGCAA| 7684
Sbjct 7637  |CGCACTCGTCAACCCGTGCGCTGCGGAAGAACAAAACTGCCATCAACGCACCTGAGCAA| 7696
Query 7685  |CTCGTGTGTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCGAGTGTCTGCCAAAG| 7744
Sbjct 7697  |CTCGTGTGTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCGAGTGTCTGCCAAAG| 7756
Query 7745  |GCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCGAGCAGCCATTACAGGACGTGCT| 7804
Sbjct 7757  |GCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCGAGCAGCCATTACAGGACGTGCT| 7816
Query 7805  |CAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGC| 7864
Sbjct 7817  |CAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGC| 7876
Query 7865  |TTGACGCTGACGCCCCACATTGAGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGT| 7924
Sbjct 7877  |TTGACGCTGACGCCCCACATTGAGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGT| 7936
Query 7925  |CCGTTGCCATGCCAGAAAGGCGGTAGCCACATCAACTCCGTGTGGAAGACCTTCTGGA| 7984
Sbjct 7937  |CCGTTGCCATGCCAGAAAGGCGGTAGCCACATCAACTCCGTGTGGAAGACCTTCTGGA| 7996
Query 7985  |AGACAGTGTAAACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCA| 8044
Sbjct 7997  |AGACAGTGTAAACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCA| 8056
Query 8045  |GCCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTCCCCGACCTGGGCGTGCG| 8104

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Sbjct	8057		GCCTGAGAAAGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGCGTGGC	8116
Query	8105		CGTGTGCGAGAAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGG	8164
Sbjct	8117		CGTGTGCGAGAAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGG	8176
Query	8165		AAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGAAGCGTG	8224
Sbjct	8177		AAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGAAGCGTG	8236
Query	8225		GAAGTCCAAGAGACCCCGATGGGGTTCTCGTATGATACCCCGTGTTTTGAAGTCCACAGT	8284
Sbjct	8237		GAAGTCCAAGAGACCCCGATGGGGTTCTCGTATGATACCCCGTGTTTTGAAGTCCACAGT	8296
Query	8285		CAGTGAAGAGCACAATCCGTACGGAGGAGCAATTTACCAATGTTGTGACCTGGACCCCA	8344
Sbjct	8297		CAGTGAAGAGCACAATCCGTACGGAGGAGCAATTTACCAATGTTGTGACCTGGACCCCA	8356
Query	8345		AGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAA	8404
Sbjct	8357		AGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAA	8416
Query	8405		TTCAAGGGGGGAAAATGCGGCTACCGCAGGTGCCGCGCAGCGCGTACTGACAACTAG	8464
Sbjct	8417		TTCAAGGGGGGAAAATGCGGCTACCGCAGGTGCCGCGCAGCGCGTACTGACAACTAG	8476
Query	8465		CTGTGGTAACACCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGAGGGCT	8524
Sbjct	8477		CTGTGGTAACACCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGAGGGCT	8536
Query	8525		CCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAGTGGCGG	8584
Sbjct	8537		CCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAGTGGCGG	8596
Query	8585		GGTCAGGAGGAGCGCGGCGAGCCTGAGAGCCCTTACCGAGGCTATGACCAAGTACTCCGC	8644
Sbjct	8597		GGTCAGGAGGAGCGCGGCGAGCCTGAGAGCCCTTACCGAGGCTATGACCAAGTACTCCGC	8656
Query	8645		CCCCCCCCGGGGAGCCCCACAACAGAAATACGACTTGGAGCTTATAACATCATGCTCCTC	8704
Sbjct	8657		CCCCCCCCGGGGAGCCCCACAACAGAAATACGACTTGGAGCTTATAACATCATGCTCCTC	8716
Query	8705		CAACGTGTGCTGCGCCACGACGCGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCC	8764
Sbjct	8717		CAACGTGTGCTGCGCCACGACGCGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCC	8776
Query	8765		TACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTCTG	8824
Sbjct	8777		TACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTCTG	8836
Query	8825		GCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCA	8884
Sbjct	8837		GCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCA	8896
Query	8885		TTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTA	8944
Sbjct	8897		TTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTA	8956
Query	8945		CGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCAITCAAAGACTCCATGG	9004
Sbjct	8957		CGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCAITCAAAGACTCCATGG	9016
Query	9005		CCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATG	9064
Sbjct	9017		CCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATG	9076
Query	9065		CCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGAGCGTCCG	9124
Sbjct	9077		CCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGAGCGTCCG	9136
Query	9125		CGCTAGGCTTCTGTCCAGAGGAGGCGAGGCTGCCATATGTGGCAAGTACCTCTTCAACTG	9184
Sbjct	9137		CGCTAGGCTTCTGTCCAGAGGAGGCGAGGCTGCTATATGTGGCAAGTACCTCTTCAACTG	9196
Query	9185		GGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGGCTGGAACTGTG	9244

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Sbjct  9197  |GGCAGTAAAGAACAAAGCTCAAACCTACTCCAATAGCGGCGCTGGCCGGCTGGACTTGTG| 9256
Query   9245  |CGGTTGGTTTACCGGCTGGCTACAGCGGGGAGACATTATACACAGCGTGTCTCATGCCCG| 9304
Sbjct  9257  |CGGTTGGTTTACCGGCTGGCTACAGCGGGGAGACATTATACACAGCGTGTCTCATGCCCG| 9316
Query   9305  |GCCCCGCTGGTTCTGGTTTTTGCCTACTCTGCTCGCTGCAGGGGTAGGCATCTACCTCTCT| 9364
Sbjct  9317  |GCCCCGCTGGTTCTGGTTTTTGCCTACTCTGCTCGCTGCAGGGGTAGGCATCTACCTCTCT| 9376
Query   9365  |CCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCCTCTTAAGCCATTTCCTGtttttt| 9424
Sbjct  9377  |CCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCCTCTTAAGCCATTTCCTGTTTTTTT| 9436
Query   9425  |tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt| 9484
Sbjct  9437  |TTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTCTTTCCCTTCCTTTCTTTTTTCTTTTC| 9496
Query   9485  |ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt| 9544
Sbjct  9497  |TTTTTCCCTTCTTTAATGGTGGCTCCAATCTAGCCCTAGTCACGGCTAGCTGTGAAAGGT| 9556
Query   9545  |CCGTGAGCCGATGACTGCAGAGAGTGTGATACCTGCGCTCTCTGCAGATCATGT| 9599
Sbjct  9557  |CCGTGAGCCGATGACTGCAGAGAGTGTGATACCTGCGCTCTCTGCAGATCATGT| 9611

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Score = 1062 bits (575), Expect = 0.0
 Identities = 800/906 (88%), Gaps = 26/906 (2%)
 Strand=Plus/Plus

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Query   1  GGCAGCCCCCTGATGGGGGCGCACTCCACCATGAATCACTCCCTGTGAGGAACACTG 60
Sbjct  1  GGCAGCCCCCTGATGGGGGCGCACTCCACCATGAATCACTCCCTGTGAGGAACACTG 60
Query   61  TCTTCACGCAAGAACGCTCTAGCCATGGCGTTAGTATGAGTGTGCTGCAGCCTCCAGGA 120
Sbjct  61  TCTTCACGCAAGAACGCTCTAGCCATGGCGTTAGTATGAGTGTGCTGCAGCCTCCAGGAC 120
Query   121  ccccccTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Sbjct  121  CCCCCCTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCGG 180
Query   181  GACGACCGGGTCCCTTCTTGGATAAACCCGCTCAATGCCCTGGAGATTGGGCGTGCCCC 240
Sbjct  181  GAAGACTGGGTCCCTTCTTGGATAAACCCACTCTATGCCCGGCCAATTGGGCGTGCCCC 240
Query   241  GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTGTGTGACTGCCTGATAGG 300
Sbjct  241  GCAAGACTGCTAGCCGAGTAGCGTTGGGTGCGGAAAGGCCCTGTGTGACTGCCTGATAGG 300
Query   301  GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360
Sbjct  301  GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360
Query   361  CTCAAAGAAAAACAAACGTAACACCAACCGTCGCCCCACAGGACGTCAGTTCCCGGGTG 420
Sbjct  361  CTCAAAGAAAAACAAAGAAACACCAACCGTCGCCCCACAGAGCGTTAAGTTCCCGGGCG 420
Query   421  GCGGTGAGATCGTTGGTGGAGTTTACTTGTTCGCCGCGCAGGGGCCCTAGATTGGGTGTG 480
Sbjct  421  GCGGCCAGATCGTTGGCGGAGTATACTTGTTCGCCGCGCAGGGGCCAGGTTGGGTGTG 480
Query   481  GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA 540
Sbjct  481  GCGCGACAAGGAAGACTTCCGAGCGGTCCAGCCAGTGGGAAGCGCCAGGCCATCCCTA 540
Query   541  AGGCA-CGTGCGC-CCGAG-GGCAGGA-CCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTC 596
Sbjct  541  AAG-ATCGGCG-CTCC-ACTGGCAA-ATCCTGGGGAATAACAGGATACCCTTGGCCCCCTA 596
Query   597  TATGGCAATGAGGGT-TGCGGGTGGGCGGATGGCTCCTGTCTCCCGTGGCTCTCGGCC 655
Sbjct  597  TACGGGAATGAGGGACT-CGGCTGGGCGAGGATGGCTCCTGTCTCCCGGAGGTTCCCGTCC 655

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Query 656 -TAGCT- GGGGCCCCACA- GACCCCCGGCTAGGTGCGCAATTGGGTAAGGTCATCGA 712
Sbjct 656 CT--CITGGGGCCCCA- ATGACCCCCGGCATAGGTGCGCAACGTGGGTAAGGTCATCGA 712
Query 713 TACCCCTACGTGCGGCTTCGCCGACCTCATGGGGTACATAACC-GCTCGTCGGCGCCCTC 771
Sbjct 713 TACCCCTAACGTGCGGCTTTGCCGACCTCATGGGGTACATCCTG-TCGTGGGCGCCCGC 771
Query 772 TTGAGGCGC-CTGCGAGGGCCCTGCGCATGCGCTCCGGTTCTGGAAGACGGCGTGAAC 830
Sbjct 772 TCGCGGCGTC-GCCAGAGCTCTCGCGCATGCGGTGAGAGTCTGGAGGACGGGGTTAAT 830
Query 831 TATGCAACAGGGAACCTT-CCTGGTTGCTC-TTCTCTATCTTCTT-CTGCGCTGCTC 887
Sbjct 831 TTGCAACAGGGAAC-TTACCCGGTTGCTCCTT-TCATCTTC-TTGCTGGCTGCTC 887
Query 888 TCTGCG 893
Sbjct 888 TCCTGCG 893

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>gb|AR916115.1| Sequence 7 from patent US 7084266
Length=9611

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

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Score = 1.263e+04 bits (6838), Expect = 0.0
Identities = 6858/6868 (99%), Gaps = 0/6868 (0%)
Strand=Plus/Plus
Query 2732 CTGTGCTCTGCTGGCGTTGGCTCAGCGGGCATACGCACTGGACACGGAGGTGGCCGCGTC 2791
Sbjct 2744 CCTACTGCTCTCTAGCATTTGCCAACAGGCATATGCACTGGACACGGAGGTGGCCGCGTC 2803
Query 2792 GTGTGGGCGGCTTGTCTTGTGCGGGTTAATGGCGTGACTCTGTGCGCATATTACAAGCG 2851
Sbjct 2804 GTGTGGGCGGCTTGTCTTGTGCGGGTTAATGGCGTGACTCTGTGCGCATATTACAAGCG 2863
Query 2852 CTATATCAGCTGGTGATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGAAGCGCAACT 2911
Sbjct 2864 CTATATCAGCTGGTGATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGAAGCGCAACT 2923
Query 2912 GCACGTGTGGGTTTCCCGCTCAACGCTCGGGGGGGCGGATGCCGTCATCTTACTCAT 2971
Sbjct 2924 GCACGTGTGGGTTCCCGCTCAACGCTCGGGGGGGCGGATGCCGTCATCTTACTCAT 2983
Query 2972 GTGTGTAGTACACCGGACCTGGTATTTGACATCACCAAACTACTCCTGGCCATCTTCGG 3031
Sbjct 2984 GTGTGTAGTACACCGGACCTGGTATTTGACATCACCAAACTACTCCTGGCCATCTTCGG 3043
Query 3032 ACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCTACTTCGTGCGCGTTCAAGG 3091
Sbjct 3044 ACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCTACTTCGTGCGCGTTCAAGG 3103
Query 3092 CCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATAGCCGGAGGTCAATTACGTGCAAAATGGC 3151
Sbjct 3104 CCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATAGCCGGAGGTCAATTACGTGCAAAATGGC 3163
Query 3152 CATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTCACCCCTCTTCG 3211
Sbjct 3164 CATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTCACCCCTCTTCG 3223
Query 3212 AGACTGGGCGCACAAAGGCTGCGAGATCTGGCGTGGCTGTGGAAACAGTCGCTTCTC 3271
Sbjct 3224 AGACTGGGCGCACAAAGGCTGCGAGATCTGGCGTGGCTGTGGAAACAGTCGCTTCTC 3283
Query 3272 CCGAATGGAGACCAAGCTCATCACGTGGGGGCGAGATACCGCCGCGTGGCGTGACATCAT 3331
Sbjct 3284 CCGAATGGAGACCAAGCTCATCACGTGGGGGCGAGATACCGCCGCGTGGCGTGACATCAT 3343
Query 3332 CAACGGCTTGCCCGTCTTGCCCGTAGGGGCCAGGAGATACTGCTTGGGCCAGCCGACGG 3391
Sbjct 3344 CAACGGCTTGCCCGTCTTGCCCGTAGGGGCCAGGAGATACTGCTTGGGCCAGCCGACGG 3403

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Query	3392	AATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCAGCAGACGAG	3451
Sbjct	3404	AATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCAGCAGACGAG	3463
Query	3452	AGGCTCTCTAGGGTGTATAATCACCAGCCTGACTGGCGGGGACAAAACCAAGTGAGGGG	3511
Sbjct	3464	AGGCTCTCTAGGGTGTATAATCACCAGCCTGACTGGCGGGGACAAAACCAAGTGAGGGG	3523
Query	3512	TGAGGTCCAGATCGTGTCAACTGTCTACCAAACCTTCTGGCAACGTGCATCAATGGGGT	3571
Sbjct	3524	TGAGGTCCAGATCGTGTCAACTGTCTACCAAACCTTCTGGCAACGTGCATCAATGGGGT	3583
Query	3572	ATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCAAGGGTCTCTGT	3631
Sbjct	3584	ATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCAAGGGTCTCTGT	3643
Query	3632	CATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTCTCTCAAGGTTT	3691
Sbjct	3644	CATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTCTCTCAAGGTTT	3703
Query	3692	CCGCTCATGTACACCTGTACTGCGGCTCTCTCGGACCTTTACTTGGTCAGAGGACGCG	3751
Sbjct	3704	CCGCTCATGTACACCTGTACTGCGGCTCTCTCGGACCTTTACTTGGTCAGAGGACGCG	3763
Query	3752	CGATGTCAATCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTTCGCCCGGGCC	3811
Sbjct	3764	CGATGTCAATCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTTCGCCCGGGCC	3823
Query	3812	CATTTCCTACTTGAAAGGCTCTCTCGGGGGTCCGCTGTTGTGCCCGCGGGACACGCCGT	3871
Sbjct	3824	CATTTCCTACTTGAAAGGCTCTCTCGGGGGTCCGCTGTTGTGCCCGCGGGACACGCCGT	3883
Query	3872	GGGCTATTTCAGGGCCGCGGTGTGCACCGTGGAGTGCGTAAAGCGGTGGACTTTATCCC	3931
Sbjct	3884	GGGCTATTTCAGGGCCGCGGTGTGCACCGTGGAGTGCGTAAAGCGGTGGACTTTATCCC	3943
Query	3932	TGTGGAGAACCATTAGGACAAACATGAGATCCCGGTGTTACGGGACAACTCCTCTCCACC	3991
Sbjct	3944	TGTGGAGAACCATTAGGACAAACATGAGATCCCGGTGTTACGGGACAACTCCTCTCCACC	4003
Query	3992	AGCAGTGCCCCAGAGCTTCCAGGTGGGCCACCTGCATGCTCCACCGGCAGCGTAAAGAG	4051
Sbjct	4004	AGCAGTGCCCCAGAGCTTCCAGGTGGGCCACCTGCATGCTCCACCGGCAGCGTAAAGAG	4063
Query	4052	CACCAAGGTCCCGGCTGCGTACGACGCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTC	4111
Sbjct	4064	CACCAAGGTCCCGGCTGCGTACGACGCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTC	4123
Query	4112	TGTTGCTGCAACGCTGGGCTTGGTGCTTACATGTCCAAGGCCCATGGGGTGTATCCTAA	4171
Sbjct	4124	TGTTGCTGCAACGCTGGGCTTGGTGCTTACATGTCCAAGGCCCATGGGGTGTATCCTAA	4183
Query	4172	TATCAGGACCGGGGTGAGAAACAATTACCACTGGCAGCCCCATACGTACTCCACCTACGG	4231
Sbjct	4184	TATCAGGACCGGGGTGAGAAACAATTACCACTGGCAGCCCCATACGTACTCCACCTACGG	4243
Query	4232	CAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATAATTGTGACGA	4291
Sbjct	4244	CAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATAATTGTGACGA	4303
Query	4292	GTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACGTGCTTGACCAAGCAGA	4351
Sbjct	4304	GTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACGTGCTTGACCAAGCAGA	4363
Query	4352	GACTGCGGGGGCAGAGCTGGTGTGCTCGCCACTGCTACCCCTCCGGGCTCCGCTACTGT	4411
Sbjct	4364	GACTGCGGGGGCAGAGCTGGTGTGCTCGCCACTGCTACCCCTCCGGGCTCCGCTACTGT	4423
Query	4412	GTCCCATCTTAACATCGAGGAGGTGCTCTGTCCACCACCGGAGAGATCCCTTTTACGG	4471
Sbjct	4424	GTCCCATCTTAACATCGAGGAGGTGCTCTGTCCACCACCGGAGAGATCCCTTTTACGG	4483
Query	4472	CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAA	4531
Sbjct	4484	CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAA	4543

Query	4532	GAAGAAGTGCAGAGCTCGCCGCGAAGCTGGTCGCAATTGGGCATCAATGCCGTGGCCCTA	4591
Sbjct	4544	GAAGAAGTGCAGAGCTCGCCGCGAAGCTGGTCGCAATTGGGCATCAATGCCGTGGCCCTA	4603
Query	4592	CTACCGCGGTCTTGACGTGTCTGTTCATCCGACCAAGCGGCGATGTTGTCTGTCTGTCTGAC	4651
Sbjct	4604	CTACCGCGGTCTTGACGTGTCTGTTCATCCGACCAAGCGGCGATGTTGTCTGTCTGTCTGAC	4663
Query	4652	CGATGCTCTCATGACTGGCTTTACCGCGACTTCGACTCTGTGATAGACTGCAACACGCTG	4711
Sbjct	4664	CGATGCTCTCATGACTGGCTTTACCGCGACTTCGACTCTGTGATAGACTGCAACACGCTG	4723
Query	4712	TGTCACCTCAGACAGTCGATTTACGCTTACGCTTACCTTTACCATTTAGACAACACGCT	4771
Sbjct	4724	TGTCACCTCAGACAGTCGATTTACGCTTACGCTTACCTTTACCATTTAGACAACACGCT	4783
Query	4772	CCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGG	4831
Sbjct	4784	CCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGG	4843
Query	4832	CATCTATAGATTGTGGCACCAGGGGAGCGCCCTCCGGCATGTTGACTCGTCCGCTCT	4891
Sbjct	4844	CATCTATAGATTGTGGCACCAGGGGAGCGCCCTCCGGCATGTTGACTCGTCCGCTCT	4903
Query	4892	CTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCGCCGAGACTACAGT	4951
Sbjct	4904	CTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCGCCGAGACTACAGT	4963
Query	4952	TAGGCTACGAGCTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAAAT	5011
Sbjct	4964	TAGGCTACGAGCTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAAAT	5023
Query	5012	TTGGGAGGGCGTCTTTACGGGCTCACTCATATAGATGCCCACTTTTATCCAGACAAA	5071
Sbjct	5024	TTGGGAGGGCGTCTTTACGGGCTCACTCATATAGATGCCCACTTTTATCCAGACAAA	5083
Query	5072	GCAGAGTGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC	5131
Sbjct	5084	GCAGAGTGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC	5143
Query	5132	TCAAGCCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCCTTAAACCCAC	5191
Sbjct	5144	TCAAGCCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCCTTAAACCCAC	5203
Query	5192	CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTGAGATGAAGTACCCT	5251
Sbjct	5204	CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTGAGATGAAGTACCCT	5263
Query	5252	GACGCACCAATCACCATAACATCATGACATGCATGTGGCCGACCTGGAGGTCTGTAC	5311
Sbjct	5264	GACGCACCAATCACCATAACATCATGACATGCATGTGGCCGACCTGGAGGTCTGTAC	5323
Query	5312	GAGCACCTGGGTGCTCGTTGGCGGCTCCTGGCTGCTCTGGCCGCGTATTGCCGTGCAAC	5371
Sbjct	5324	GAGCACCTGGGTGCTCGTTGGCGGCTCCTGGCTGCTCTGGCCGCGTATTGCCGTGCAAC	5383
Query	5372	AGGCTGCGTGGTCATAGTGGCAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGA	5431
Sbjct	5384	AGGCTGCGTGGTCATAGTGGCAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGA	5443
Query	5432	CAGGAGGTCTCTTACCAGGAGTTTCATGAGATGGAAGAGTGTCTTCAGCACTTACCCTA	5491
Sbjct	5444	CAGGAGGTCTCTTACCAGGAGTTTCATGAGATGGAAGAGTGTCTTCAGCACTTACCCTA	5503
Query	5492	CATCAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCA	5551
Sbjct	5504	CATCAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCA	5563
Query	5552	GACCGCGTCCCGCCATGACAGAGTTATCACCCCTGCTGTCCAGACCAACTGGCAGAACT	5611
Sbjct	5564	GACCGCGTCCCGCCATGACAGAGTTATCACCCCTGCTGTCCAGACCAACTGGCAGAACT	5623
Query	5612	CGAGGTCTTTTGGGCGAAGCACATGTGGAATTTATCAGTGGGATACAATACTTGGCGGG	5671
Sbjct	5624	CGAGGTCTTTTGGGCGAAGCACATGTGGAATTTATCAGTGGGATACAATACTTGGCGGG	5683

Query	5672	CCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTACAGCTGCCGT	5731
Sbjct	5684	CCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTACAGCTGCCGT	5743
Query	5732	CACCGAGCCACTAACCCTGCGCAACCCCTCTCTCTCAACATATTgggggggTGGGTGGC	5791
Sbjct	5744	CACCGAGCCACTAACCCTGCGCAACCCCTCTCTCTCAACATATTGGGGGGTGGGTGGC	5803
Query	5792	TGCCCAGCTCGCGCCCCCGGTGCCGCTACTGCCTTTTGGGTGCTGCGCTAGCTGGCGC	5851
Sbjct	5804	TGCCCAGCTCGCGCCCCCGGTGCCGCTACTGCCTTTTGGGTGCTGCGCTAGCTGGCGC	5863
Query	5852	CGCCATCGGACGCGTTGGACTGGGGAAGTCTCTGTTGACATCTTTCAGGGTATGGCGC	5911
Sbjct	5864	CGCCATCGGACGCGTTGGACTGGGGAAGTCTCTGTTGACATCTTTCAGGGTATGGCGC	5923
Query	5912	GGCGGTGGCGGGAGCTCTTGTAGCATTCAGATCATGAGCGGTGAGGTCCCTCCACGGA	5971
Sbjct	5924	GGCGGTGGCGGGAGCTCTTGTAGCATTCAGATCATGAGCGGTGAGGTCCCTCCACGGA	5983
Query	5972	GGACCTGGTCAATCTGCTGCCCGCATCTCTCGCTGGAGCCCTGTAGTCGGGTGGT	6031
Sbjct	5984	GGACCTGGTCAATCTGCTGCCCGCATCTCTCGCTGGAGCCCTGTAGTCGGGTGGT	6043
Query	6032	CTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAA	6091
Sbjct	6044	CTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAA	6103
Query	6092	CCGGCTAATAGCCTTCGCTCCCGGGGGAACCATGTTTCCCCACGCACTACGTGCCGGA	6151
Sbjct	6104	CCGGCTAATAGCCTTCGCTCCCGGGGGAACCATGTTTCCCCACGCACTACGTGCCGGA	6163
Query	6152	GAGCGATGCAGCGCCCGCGCTCACTGCCATACTCAGCAGCTCAGTGAACCCAGCTCT	6211
Sbjct	6164	GAGCGATGCAGCGCCCGCGCTCACTGCCATACTCAGCAGCTCAGTGAACCCAGCTCT	6223
Query	6212	GAGGCGACTGCATCAGTGGATAAAGCTCGGAGTGTACCACCTCATGCTCCGGTTCCTGGCT	6271
Sbjct	6224	GAGGCGACTGCATCAGTGGATAAAGCTCGGAGTGTACCACCTCATGCTCCGGTTCCTGGCT	6283
Query	6272	AAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGC	6331
Sbjct	6284	AAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGC	6343
Query	6332	CAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCTGCCAGCGCGGTATAGGGG	6391
Sbjct	6344	CAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCTGCCAGCGCGGTATAGGGG	6403
Query	6392	GGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGG	6451
Sbjct	6404	GGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGG	6463
Query	6452	ACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAG	6511
Sbjct	6464	ACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAG	6523
Query	6512	TGGGACGTTCCCCATTAAACGCTACACCACGGGCCCTGTACTCCCTTCCTGCGCCGAA	6571
Sbjct	6524	TGGGACGTTCCCCATTAAACGCTACACCACGGGCCCTGTACTCCCTTCCTGCGCCGAA	6583
Query	6572	CTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGCGGGTGGG	6631
Sbjct	6584	CTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGCGGGTGGG	6643
Query	6632	GGACTTCACACTACGTATCGGGTATGACTACTGACAATCTTAAATGCCGTGCCAGATCCC	6691
Sbjct	6644	GGACTTCACACTACGTATCGGGTATGACTACTGACAATCTTAAATGCCGTGCCAGATCCC	6703
Query	6692	ATCGCCCGAATTTTTACAGAAATTGGACGGGGTGCCTACACAGGTTTGCGCCCTTTG	6751
Sbjct	6704	ATCGCCCGAATTTTTACAGAAATTGGACGGGGTGCCTACACAGGTTTGCGCCCTTTG	6763
Query	6752	CAAGCCCTTGCTGCGGGAGGAGGTATCATTACAGAGTAGGACTCCACAGTACCCGGTGGG	6811
Sbjct	6764	CAAGCCCTTGCTGCGGGAGGAGGTATCATTACAGAGTAGGACTCCACAGTACCCGGTGGG	6823

Query	6812	GTGCGAATTACCTTGGCAGGCCGAACCGGACGTAGCCGTTGTGACGTCATGCTCACTGA	6871
Sbjct	6824	GTGCGAATTACCTTGGCAGGCCGAACCGGACGTAGCCGTTGTGACGTCATGCTCACTGA	6883
Query	6872	TCCTTCCCATATAACAGCAGAGGCGGCCGGGAGAAGTTGGCGAGAGGGTCAACCCCTTC	6931
Sbjct	6884	TCCTTCCCATATAACAGCAGAGGCGGCCGGGAGAAGTTGGCGAGAGGGTCAACCCCTTC	6943
Query	6932	TATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGC	6991
Sbjct	6944	TATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGC	7003
Query	6992	CAACCATGACTCCCTTGACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGAT	7051
Sbjct	7004	CAACCATGACTCCCTTGACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGAT	7063
Query	7052	GGCGGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGA	7111
Sbjct	7064	GGCGGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGA	7123
Query	7112	TCGGCTGTGTGGCAGAGAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATCTCGGGAA	7171
Sbjct	7124	TCGGCTGTGTGGCAGAGAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATCTCGGGAA	7183
Query	7172	GTCTCGGAGATTGCGCCGGGCCCTGCCCGCTCTGGGCGCGGCCGGACTACAACCCCCCGCT	7231
Sbjct	7184	GTCTCGGAGATTGCGCCGGGCCCTGCCCGCTCTGGGCGCGGCCGGACTACAACCCCCCGCT	7243
Query	7232	AGTAGAGACGTGGAAAAAGCCTGACTACGAACACCTTGGTCCATGGCTGCCCGCTACC	7291
Sbjct	7244	AGTAGAGACGTGGAAAAAGCCTGACTACGAACACCTTGGTCCATGGCTGCCCGCTACC	7303
Query	7292	ACCTCCACGGTCCCTCTCTGTGCCTCCGCTCGGAAAAAGCGTACGGTGGTCTCACCGA	7351
Sbjct	7304	ACCTCCACGGTCCCTCTCTGTGCCTCCGCTCGGAAAAAGCGTACGGTGGTCTCACCGA	7363
Query	7352	ATCAACCCATATCTACTGCTTGGCCGAGCTTGCCACCAAAAGTTTGGCAGCTCCTCAAC	7411
Sbjct	7364	ATCAACCCATATCTACTGCTTGGCCGAGCTTGCCACCAAAAGTTTGGCAGCTCCTCAAC	7423
Query	7412	TTCCGGCATTACGGGGGACAATACGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCC	7471
Sbjct	7424	TTCCGGCATTACGGGGGACAATACGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCC	7483
Query	7472	CCCCGACTCCGAGCTTGAGTCTATTCTTCCATGCCCCCTTGGAGGGGGAGCTTGGGA	7531
Sbjct	7484	CCCCGACTCCGAGCTTGAGTCTATTCTTCCATGCCCCCTTGGAGGGGGAGCTTGGGA	7543
Query	7532	TCGGATCTCAGCGACGGGTATGGTCGACGGTCAGTAGTGGGGCCGACAGGAAGATGT	7591
Sbjct	7544	TCGGATCTCAGCGACGGGTATGGTCGACGGTCAGTAGTGGGGCCGACAGGAAGATGT	7603
Query	7592	CGTGTGCTGCTCAATGTCTTATTCTTGGACAGGCGCACTCGTACCCCGTGCCTGCGGA	7651
Sbjct	7604	CGTGTGCTGCTCAATGTCTTATTCTTGGACAGGCGCACTCGTACCCCGTGCCTGCGGA	7663
Query	7652	AGAACAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGT	7711
Sbjct	7664	AGAACAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGT	7723
Query	7712	GTAATCCACCACTTACGCGAGTGTCTTGCCAAAGGCAGAGAAGATGACATTGACAGACT	7771
Sbjct	7724	GTAATCCACCACTTACGCGAGTGTCTTGCCAAAGGCAGAGAAGATGACATTGACAGACT	7783
Query	7772	GCAAGTCTTGACAGCCATTACAGGACGTGCTCAAGGAGGTCAAAGCAGCGCGCTCAA	7831
Sbjct	7784	GCAAGTCTTGACAGCCATTACAGGACGTGCTCAAGGAGGTCAAAGCAGCGCGCTCAA	7843
Query	7832	AGTGAAGGCTAACTTGTCTATCCGTAGAGGAAGCTTGCAGCCTGACGCCCCACATTACG	7891
Sbjct	7844	AGTGAAGGCTAACTTGTCTATCCGTAGAGGAAGCTTGCAGCCTGACGCCCCACATTACG	7903
Query	7892	CAAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGCCAGAAAGCCGTAGC	7951
Sbjct	7904	CAAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGCCAGAAAGCCGTAGC	7963

Query	7952	CCACATCAACTCCGTTGTGGAAGACCTTCTGGAAGACAGTGTAAACCAATAGACACTAC	8011
Sbjct	7964	CCACATCAACTCCGTTGTGGAAGACCTTCTGGAAGACAGTGTAAACCAATAGACACTAC	8023
Query	8012	CATCATGGCCAAGAACGAGGTTTTCTGCGTTTCAGCCTTGAGAAGGGGGGTCTGAAGCCAGC	8071
Sbjct	8024	CATCATGGCCAAGAACGAGGTTTTCTGCGTTTCAGCCTTGAGAAGGGGGGTCTGAAGCCAGC	8083
Query	8072	TCGTCTCATCGTGTTCCTCCGACCTGGGCGTGCCTGTGCGAGAAGATGGCCCTGTACGA	8131
Sbjct	8084	TCGTCTCATCGTGTTCCTCCGACCTGGGCGTGCCTGTGCGAGAAGATGGCCCTGTACGA	8143
Query	8132	CGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTACC	8191
Sbjct	8144	CGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTACC	8203
Query	8192	AGGACAGCGGGTGAATTCTCTGTCGAAGCGTGAAGTCCAAGAAGACCCCGATGGGGTT	8251
Sbjct	8204	AGGACAGCGGGTGAATTCTCTGTCGAAGCGTGAAGTCCAAGAAGACCCCGATGGGGTT	8263
Query	8252	CTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGAGGA	8311
Sbjct	8264	CTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGAGGA	8323
Query	8312	GGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGGTGGCCATCAAGTCCCTCAC	8371
Sbjct	8324	GGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGGTGGCCATCAAGTCCCTCAC	8383
Query	8372	TGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAAAACTCGCGTACCG	8431
Sbjct	8384	TGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAAAACTCGCGTACCG	8443
Query	8432	CAGGTGCCCGCGGAGCGCGTACTGACAACCTAGCTGTGGTTAACACCCCTCACTTGCTACAT	8491
Sbjct	8444	CAGGTGCCCGCGGAGCGCGTACTGACAACCTAGCTGTGGTTAACACCCCTCACTTGCTACAT	8503
Query	8492	CAAGGCCCGGGGACGCTGTCGAGCCGAGGGCTCCAGGACTGCACCATGCTCGTGTGTGG	8551
Sbjct	8504	CAAGGCCCGGGGACGCTGTCGAGCCGAGGGCTCCAGGACTGCACCATGCTCGTGTGTGG	8563
Query	8552	CGACGACTTAGTCGTTATCTGTGAAAGTGCAGGGGTCCAGGAGGACGCGGAGCCTGAG	8611
Sbjct	8564	CGACGACTTAGTCGTTATCTGTGAAAGTGCAGGGGTCCAGGAGGACGCGGAGCCTGAG	8623
Query	8612	AGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCCCGGGGACCCCCACAACCAGA	8671
Sbjct	8624	AGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCCCGGGGACCCCCACAACCAGA	8683
Query	8672	ATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCACTGCGCCACGACGGCGC	8731
Sbjct	8684	ATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCACTGCGCCACGACGGCGC	8743
Query	8732	TGGAAGAGGGGTCTACTACCTTACCCTGACCTACAACCCCCCTCGCGAGAGCCGCGTG	8791
Sbjct	8744	TGGAAGAGGGGTCTACTACCTTACCCTGACCTACAACCCCCCTCGCGAGAGCCGCGTG	8803
Query	8792	GGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCAACATAATCATGTTTGCCCC	8851
Sbjct	8804	GGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCAACATAATCATGTTTGCCCC	8863
Query	8852	CACACTGTGGGCGAGGATGATACTGATGACCAATTCCTTTAGCGTCCCTATAGCCAGGA	8911
Sbjct	8864	CACACTGTGGGCGAGGATGATACTGATGACCAATTCCTTTAGCGTCCCTATAGCCAGGA	8923
Query	8912	TCAGCTTGAACAGGCTCTTAAGTGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACT	8971
Sbjct	8924	TCAGCTTGAACAGGCTCTTAAGTGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACT	8983
Query	8972	GGATCTACCTCCAATCATTCAAAGACTCCATGGCTCAGCGCATTTTCACTCCACAGTTA	9031
Sbjct	8984	GGATCTACCTCCAATCATTCAAAGACTCCATGGCTCAGCGCATTTTCACTCCACAGTTA	9043
Query	9032	CTCTCCAGGTGAAATCAATAGGGTGGCCGATGCCTCAGAAAATTTGGGGTCCCGCCCTT	9091
Sbjct	9044	CTCTCCAGGTGAAATCAATAGGGTGGCCGATGCCTCAGAAAATTTGGGGTCCCGCCCTT	9103

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Query 9092 GCGAGCTTGGAGACACCGGCCCGGAGCGTCCGCGCTAGGCTTCTGTCCAGGAGGCGAG 9151
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Query 9152 GGCCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAACAAGCTCAAACCTCAC 9211
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Sbjct 9164 GGCCTGCTATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAACAAGCTCAAACCTCAC 9223
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Query 9212 TCCAATAGCGCGCGCTGGCCGGCTGGACTTGTCCGGTTGGTTACAGGCTGGCTACAGCGG 9271
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Sbjct 9224 TCCAATAGCGCGCGCTGGCCGGCTGGACTTGTCCGGTTGGTTACAGGCTGGCTACAGCGG 9283
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Sbjct 9344 CCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAAC 9403
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Query 9392 ACTCCGGGCTCTTAAGCCATTTCCTG| 9451
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Sbjct 9404 ACTCCGGGCTCTTAAGCCATTTCCTG| 9463
          |||

Query 9452 | 9511
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Sbjct 9464 | 9523
          |||

Query 9512 TCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCGGTGAGCCGCATGACTGCAGAGAGTG 9571
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Sbjct 9524 TCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCGGTGAGCCGCATGACTGCAGAGAGTG 9583
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Query 9572 CTGATACTGGCCCTCTCTGCAGATCATGT 9599
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Score = 1118 bits (605), Expect = 0.0
 Identities = 810/906 (89%), Gaps = 26/906 (2%)
 Strand=Plus/Plus

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Sbjct 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAACACTG 60
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Query 61 TCTTACGCGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGGCTCCAGGAC 120
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Sbjct 61 TCTTACGCGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGGCTCCAGGAC 120
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Query 121 |TCCCGGAGAGGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
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Sbjct 121 |TCCCGGAGAGGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
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Query 597  TATGGCAATGAGGGT-TGCGGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCC 655
Sbjct 597  TACGGGAATGAGGGACT-CGGCTGGCGAGGATGGCTCCTGTCTCCCGCAGAGTTCCCGTCC 655

Query 656  -TAGCT-GGGGCCCCACA-GACCCCCGGCGTAGGTCGCGCAATTGGGTAAAGTCATCGA 712
Sbjct 656  CT--CTTGGGGCCCCA-ATGACCCCCGGCATAGGTCGCGCAACGTTGGGTAAAGTCATCGA 712

Query 713  TACCCCTTACGTGCGGCTTCGCCGACCTCATGGGGTACATACC-GCTCGTCGGCGCCCCC 771
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Query 772  TTGGAGGCG-CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAAC 830
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Query 831  TATGCAACAGGGAACTT-CTGGTGTGCTC-TTCTCTATCTTCTT-CTGGCCCTGCTC 887
Sbjct 831  TTTGCAACAGGGAAAC-TTACC GGTTGCTCCTTT-TCATCTTC-TTGTGGCCCTGCTG 887

Query 888  TCTTGC 893
Sbjct 888  TCTGCG 893

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>gb|AR916113.1| Sequence 3 from patent US 7084266
Length=9611

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.263e+04 bits (6838), Expect = 0.0
Identities = 6858/6868 (99%), Gaps = 0/6868 (0%)
Strand=Plus/Plus

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Sbjct 2744  CCTACTGCTCTTAGCATTTGCCCAACAGGCATATGCACTGGACACGGAGGTGGCCCGCTC 2803

Query 2792  GTGTGGCGGCGTTGTTCTTGTGCGGGTTAATGGCGCTGACTCTGTGCGCATATTACAAGCG 2851
Sbjct 2804  GTGTGGCGGCGTTGTTCTTGTGCGGGTTAATGGCGCTGACTCTGTGCGCATATTACAAGCG 2863

Query 2852  CTATATCAGCTGGTGATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGAAGCGCAACT 2911
Sbjct 2864  CTATATCAGCTGGTGATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGAAGCGCAACT 2923

Query 2912  GCACGTGTGGGTTTccccccTCAACGTCCgggggggCGCGATGCCGTATCTTACTCAT 2971
Sbjct 2924  GCACGTGTGGGTTCCCCCCCTCAACGTCCGGGGGGGGCGCGATGCCGTATCTTACTCAT 2983

Query 2972  GTGTGTAGTACACCCGACCCTGGTATTTGACATCACCAAATACTCCTGGCCATCTTCGG 3031
Sbjct 2984  GTGTGTAGTACACCCGACCCTGGTATTTGACATCACCAAATACTCCTGGCCATCTTCGG 3043

Query 3032  ACCCCTTTGGATTCTTCAAGCCAGTTTGTCTTAAAGTCCCTACTTCTGTCGCGGTTCAAGG 3091
Sbjct 3044  ACCCCTTTGGATTCTTCAAGCCAGTTTGTCTTAAAGTCCCTACTTCTGTCGCGGTTCAAGG 3103

Query 3092  CCTTCTCCGGATCTGCGCGTAGCGCGGAAGATAGCCGGAGGTCAATTACGTGCAAAATGCG 3151
Sbjct 3104  CCTTCTCCGGATCTGCGCGTAGCGCGGAAGATAGCCGGAGGTCAATTACGTGCAAAATGCG 3163

Query 3152  CATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTCACCCCTCTTCG 3211
Sbjct 3164  CATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTCACCCCTCTTCG 3223

Query 3212  AGACTGGGCGCACAAAGCCCTGCGAGATCTGGCCGTGGCTGTGGAACCAAGTCGTCCTTC 3271
Sbjct 3224  AGACTGGGCGCACAAAGCCCTGCGAGATCTGGCCGTGGCTGTGGAACCAAGTCGTCCTTC 3283

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Query	3272	CCGAATGGAGACCAAGCTCATCAGTGGGGGGCAGATACCGCCGCGTGC	3331
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Query	3332	CAACGGCTTGCCCGTCTCTGCCCGTAGGGGGCAGGAGATACTGCTTGGGGCAGCCGACGG	3391
Sbjct	3344	CAACGGCTTGCCCGTCTCTGCCCGTAGGGGGCAGGAGATACTGCTTGGGGCAGCCGACGG	3403
Query	3392	AATGGTCTCCAAGGGGTGGAGGTGTCTGGCGCCCATCACGGCGTACGCCACGACAGCAG	3451
Sbjct	3404	AATGGTCTCCAAGGGGTGGAGGTGTCTGGCGCCCATCACGGCGTACGCCACGACAGCAG	3463
Query	3452	AGGCCTCTCAGGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGG	3511
Sbjct	3464	AGGCCTCTCAGGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGG	3523
Query	3512	TGAGGTCAGATCGTGTCAACTGCTACCCAAACCTTCTGGCAACGTGCATCAATGGGGT	3571
Sbjct	3524	TGAGGTCAGATCGTGTCAACTGCTACCCAAACCTTCTGGCAACGTGCATCAATGGGGT	3583
Query	3572	ATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATACCCAAAGGTCTCTGT	3631
Sbjct	3584	ATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATACCCAAAGGTCTCTGT	3643
Query	3632	CATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTCTCAAGGTTT	3691
Sbjct	3644	CATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTCTCAAGGTTT	3703
Query	3692	CCGCTCATTGACACCTGTACTGCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGC	3751
Sbjct	3704	CCGCTCATTGACACCTGTACTGCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGC	3763
Query	3752	CGATGTCAATCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTGCGCCCGGCC	3811
Sbjct	3764	CGATGTCAATCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTGCGCCCGGCC	3823
Query	3812	CATTTCTACTTGAAAGGCTCTCGGGGGGTCCGCTGTTGTGCCCGCGGGACACGCCGT	3871
Sbjct	3824	CATTTCTACTTGAAAGGCTCTCGGGGGGTCCGCTGTTGTGCCCGCGGGACACGCCGT	3883
Query	3872	GGGCTATTAGGGCCGCGGTGTACCCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCC	3931
Sbjct	3884	GGGCTATTAGGGCCGCGGTGTACCCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCC	3943
Query	3932	TGTGGAAACCTAGGGACAACCATGAGATCCCGGTGTTACGGACAACCTCCTTCACCC	3991
Sbjct	3944	TGTGGAAACCTAGGGACAACCATGAGATCCCGGTGTTACGGACAACCTCCTTCACCC	4003
Query	3992	AGCAGTGCCTCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCACCGCAGCGGTAAGAG	4051
Sbjct	4004	AGCAGTGCCTCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCACCGCAGCGGTAAGAG	4063
Query	4052	CACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTC	4111
Sbjct	4064	CACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTC	4123
Query	4112	TGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGGGTGTATCCTAA	4171
Sbjct	4124	TGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGGGTGTATCCTAA	4183
Query	4172	TATCAGGACCGGGGTGAGAAACAATTACCACTGGCAGCCCCATCAGTACTCCACCTACGG	4231
Sbjct	4184	TATCAGGACCGGGGTGAGAAACAATTACCACTGGCAGCCCCATCAGTACTCCACCTACGG	4243
Query	4232	CAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAAATAATTGTGACGA	4291
Sbjct	4244	CAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAAATAATTGTGACGA	4303
Query	4292	GTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACCTGTCTTGACCAAGCAGA	4351
Sbjct	4304	GTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACCTGTCTTGACCAAGCAGA	4363
Query	4352	GACTGCGGGGGCAGACTGGTTGTGCTCGCCACTGCTACCTCCGGGCTCCGTCACTGT	4411
Sbjct	4364	GACTGCGGGGGCAGACTGGTTGTGCTCGCCACTGCTACCTCCGGGCTCCGTCACTGT	4423

Query	4412	GTCCATCTCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATCCCCCTTTACGG	4471
Sbjct	4424	GTCCATCTCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATCCCCCTTTACGG	4483
Query	4472	CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAA	4531
Sbjct	4484	CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAA	4543
Query	4532	GAAGAAGTGCAGCAGAGCTCGCCGGAAGCTGGTCGATTGGGCATCAATGCCGTGGCCTA	4591
Sbjct	4544	GAAGAAGTGCAGCAGAGCTCGCCGGAAGCTGGTCGATTGGGCATCAATGCCGTGGCCTA	4603
Query	4592	CTACCGCGGCTTGTACGTGTCTGTATCCCGACCAGCGCGATGTTGTCTGTGTCTGAC	4651
Sbjct	4604	CTACCGCGGCTTGTACGTGTCTGTATCCCGACCAGCGCGATGTTGTCTGTGTCTGAC	4663
Query	4652	CGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTG	4711
Sbjct	4664	CGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTG	4723
Query	4712	TGTACTCAGACAGTCGATTTACGCTTGACCTTACCTTTACCATTGAGACAACACAGCT	4771
Sbjct	4724	TGTACTCAGACAGTCGATTTACGCTTGACCTTACCTTTACCATTGAGACAACACAGCT	4783
Query	4772	CCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGG	4831
Sbjct	4784	CCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGG	4843
Query	4832	CATCTATAGATTTGTGGCACCGGGGAGCGCCCTTCGGCATGTTGACTCGTCCGCTCT	4891
Sbjct	4844	CATCTATAGATTTGTGGCACCGGGGAGCGCCCTTCGGCATGTTGACTCGTCCGCTCT	4903
Query	4892	CTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCGCCGAGACTACAGT	4951
Sbjct	4904	CTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCGCCGAGACTACAGT	4963
Query	4952	TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTGAATT	5011
Sbjct	4964	TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTGAATT	5023
Query	5012	TTGGGAGGGCGTCTTTACGGGCTCACTCATATAGATGCCCACTTTTATCCAGACAAA	5071
Sbjct	5024	TTGGGAGGGCGTCTTTACGGGCTCACTCATATAGATGCCCACTTTTATCCAGACAAA	5083
Query	5072	GCAGAGTGGGGAGAATTTTCTTACCTGGTAGCGTACCAAGCCACCGTGTGCCGTAGGGC	5131
Sbjct	5084	GCAGAGTGGGGAGAATTTTCTTACCTGGTAGCGTACCAAGCCACCGTGTGCCGTAGGGC	5143
Query	5132	TCAAGCCCTTCCCCATCGTGGGACCAGATGTGGAAGTGTGTGATCCGCCCTTAAACCCAC	5191
Sbjct	5144	TCAAGCCCTTCCCCATCGTGGGACCAGATGTGGAAGTGTGTGATCCGCCCTTAAACCCAC	5203
Query	5192	CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTGAGATGAAGTACCCT	5251
Sbjct	5204	CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTGAGATGAAGTACCCT	5263
Query	5252	GACGCACCAATACCAAATACATCATGACATGCATGTGGCCGACCTGGAGGTGCTCAC	5311
Sbjct	5264	GACGCACCAATACCAAATACATCATGACATGCATGTGGCCGACCTGGAGGTGCTCAC	5323
Query	5312	GAGCACCTGGGTGCTGTTGGCGGCGTCTGGCTGCTCTGGCCGCGTATTGCTGTCAAC	5371
Sbjct	5324	GAGCACCTGGGTGCTGTTGGCGGCGTCTGGCTGCTCTGGCCGCGTATTGCTGTCAAC	5383
Query	5372	AGGCTGCGTGGTCAATAGTGGGAGGATGCTCTTGTCCGGGAAGCCGGAATATACCTGA	5431
Sbjct	5384	AGGCTGCGTGGTCAATAGTGGGAGGATGCTCTTGTCCGGGAAGCCGGAATATACCTGA	5443
Query	5432	CAGGGAGGTTCTCTACAGGAGTTGATGAGATGGAAGAGTGTCTCAGCACTTACCCTA	5491
Sbjct	5444	CAGGGAGGTTCTCTACAGGAGTTGATGAGATGGAAGAGTGTCTCAGCACTTACCCTA	5503
Query	5492	CATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCTGCA	5551
Sbjct	5504	CATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCTGCA	5563

Query	5552	GACCCGCTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAACTGGCAGAACT	5611
Sbjct	5564	GACCCGCTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAACTGGCAGAACT	5623
Query	5612	CGAGGTCTTTTGGGCGAAGCACATGTGGAATTCATCAGTGGGATACAACTTGGCGGG	5671
Sbjct	5624	CGAGGTCTTTTGGGCGAAGCACATGTGGAATTCATCAGTGGGATACAACTTGGCGGG	5683
Query	5672	CCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGT	5731
Sbjct	5684	CCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGT	5743
Query	5732	CACCAGCCCACTAACCACCTGGCCAAACCCCTCTCTTCAACATATTgagggggTGGGTGGC	5791
Sbjct	5744	CACCAGCCCACTAACCACCTGGCCAAACCCCTCTCTTCAACATATTGGGGGGGTGGGTGGC	5803
Query	5792	TGCCAGCTCGCCGCCCCCGGTGCGCTACTGCCCTTTGGGGTCTGGCCTAGCTGGCGC	5851
Sbjct	5804	TGCCAGCTCGCGGCCCCCGGTGCGCTACTGCCCTTTGGGGTCTGGCCTAGCTGGCGC	5863
Query	5852	CGCCATCGGCAGCGTTGGACTGGGGAAGTCTCTGTTGGCAATTCCTTGAGGGTATGGCGC	5911
Sbjct	5864	CGCCATCGGCAGCGTTGGACTGGGGAAGTCTCTGTTGGCAATTCCTTGAGGGTATGGCGC	5923
Query	5912	GGCGGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTCCCTCCACGGA	5971
Sbjct	5924	GGCGGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTCCCTCCACGGA	5983
Query	5972	GGACCTGGTCAATCTGCTGCCCGCATCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGT	6031
Sbjct	5984	GGACCTGGTCAATCTGCTGCCCGCATCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGT	6043
Query	6032	CTGCCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAA	6091
Sbjct	6044	CTGCCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAA	6103
Query	6092	CCGGCTAATAGCCTTCGCCCTCCCGGGGGAACCATGTTTCCCCACGCACTACGTGCCGA	6151
Sbjct	6104	CCGGCTAATAGCCTTCGCCCTCCCGGGGGAACCATGTTTCCCCACGCACTACGTGCCGA	6163
Query	6152	GAGCGATGCAGCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCT	6211
Sbjct	6164	GAGCGATGCAGCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCT	6223
Query	6212	GAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCT	6271
Sbjct	6224	GAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCT	6283
Query	6272	AAGGACATCTGGGACATGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGC	6331
Sbjct	6284	AAGGACATCTGGGACATGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGC	6343
Query	6332	CAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGG	6391
Sbjct	6344	CAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGG	6403
Query	6392	GGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGG	6451
Sbjct	6404	GGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGG	6463
Query	6452	ACATGTCAAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAG	6511
Sbjct	6464	ACATGTCAAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAG	6523
Query	6512	TGGGACGTTCCCCATTAAACGCTACACCACGGGGCCCTGTACTCCCTTCTGCGCCGAA	6571
Sbjct	6524	TGGGACGTTCCCCATTAAACGCTACACCACGGGGCCCTGTACTCCCTTCTGCGCCGAA	6583
Query	6572	CTATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGG	6631
Sbjct	6584	CTATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGG	6643
Query	6632	GGACTTCCACTAGTATCGGGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCC	6691
Sbjct	6644	GGACTTCCACTAGTATCGGGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCC	6703

Query	6692	ATCGCCCGAATTTTTCACAGAATTGGACGGGGTGC	6751
Sbjct	6704	ATCGCCCGAATTTTTCACAGAATTGGACGGGGTGC	6763
Query	6752	CAAGCCCTTGC	6811
Sbjct	6764	CAAGCCCTTGC	6823
Query	6812	GTCGCAATTACCTTGC	6871
Sbjct	6824	GTCGCAATTACCTTGC	6883
Query	6872	TCCCTCCCATATAACAGCAGAGGCGGCGGGAAGGTTGGC	6931
Sbjct	6884	TCCCTCCCATATAACAGCAGAGGCGGCGGGAAGGTTGGC	6943
Query	6932	TATGGCCAGCTCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGC	6991
Sbjct	6944	TATGGCCAGCTCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGC	7003
Query	6992	CAACCATGACTTCCCTGACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGAGAT	7051
Sbjct	7004	CAACCATGACTTCCCTGACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGAGAT	7063
Query	7052	GGCGGCAACATCACCAGGTTGAGTCAGAGAACAAGTGGTGATTCTGGACTCCTTCGA	7111
Sbjct	7064	GGCGGCAACATCACCAGGTTGAGTCAGAGAACAAGTGGTGATTCTGGACTCCTTCGA	7123
Query	7112	TCCGCTTGTGGCAGAGGAGGATGAGCGGGAGTCTCCGTACCTGCAGAAATCTGCGGAA	7171
Sbjct	7124	TCCGCTTGTGGCAGAGGAGGATGAGCGGGAGTCTCCGTACCTGCAGAAATCTGCGGAA	7183
Query	7172	GTC	7231
Sbjct	7184	GTC	7243
Query	7232	AGTAGAGACGTGGAAAAAGCCTGACTACGAACACCTTGGTCCATGGCTGCCCGCTACC	7291
Sbjct	7244	AGTAGAGACGTGGAAAAAGCCTGACTACGAACACCTTGGTCCATGGCTGCCCGCTACC	7303
Query	7292	ACCTCCACGGTCCCTCTCTGTGCCTCCGCTCGGAAAAAGCGTACGGTGGTCTCACCGA	7351
Sbjct	7304	ACCTCCACGGTCCCTCTCTGTGCCTCCGCTCGGAAAAAGCGTACGGTGGTCTCACCGA	7363
Query	7352	ATCAACCCATCTACTGCTTGGCCGAGCTTGCCACCAAAAGTTTGGCAGCTCCTCAAC	7411
Sbjct	7364	ATCAACCCATCTACTGCTTGGCCGAGCTTGCCACCAAAAGTTTGGCAGCTCCTCAAC	7423
Query	7412	TTCGGGCAATTACGGGCGACAATACGACAACATCCTCTGAGCCCGCCCTTCTGGGTG	7471
Sbjct	7424	TTCGGGCAATTACGGGCGACAATACGACAACATCCTCTGAGCCCGCCCTTCTGGGTG	7483
Query	7472	GGGACTCCGACGTTGAGTCTTATCTTCCATGGGAGGGGAGCGCTGGGGA	7531
Sbjct	7484	CCCGGACTCCGACGTTGAGTCTTATCTTCCATGCCCGCCCTGGAGGGGAGCGCTGGGGA	7543
Query	7532	TCCGGATCTCAGCGACGGGTATGGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGT	7591
Sbjct	7544	TCCGGATCTCAGCGACGGGTATGGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGT	7603
Query	7592	CGTGTGCTGCTCAATGTCTTATTCTTGGACAGGCGCACTCGTCACCCCGTGGCTGCGGA	7651
Sbjct	7604	CGTGTGCTGCTCAATGTCTTATTCTTGGACAGGCGCACTCGTCACCCCGTGGCTGCGGA	7663
Query	7652	AGAAACAAAACTGCCCATCAACGCAGTACGCAACTCGTGTGCTACGCCATCACAATCTGGT	7711
Sbjct	7664	AGAAACAAAACTGCCCATCAACGCAGTACGCAACTCGTGTGCTACGCCATCACAATCTGGT	7723
Query	7712	GTATTCCACCACTTACGCGAGTGCTTGCCAAAGGCAGAGAAAGTCACATTGACAGACT	7771
Sbjct	7724	GTATTCCACCACTTACGCGAGTGCTTGCCAAAGGCAGAGAAAGTCACATTGACAGACT	7783
Query	7772	GCAAGTTCTGGACAGCCATTACGAGGAGTGCTCAAGGAGGTCAAGCAGCGCGTCAA	7831
Sbjct	7784	GCAAGTTCTGGACAGCCATTACGAGGAGTGCTCAAGGAGGTCAAGCAGCGCGTCAA	7843

Query	7832	AGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGACGCCCCACATTACGC	7891
Sbjct	7844	AGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGACGCCCCACATTACGC	7903
Query	7892	CAAATCCAAGTTTGGCTATGGGGCAAAGACGCTCCGTTGCCATGCCAGAAAGGCCGTAGC	7951
Sbjct	7904	CAAATCCAAGTTTGGCTATGGGGCAAAGACGCTCCGTTGCCATGCCAGAAAGGCCGTAGC	7963
Query	7952	CCACATCAACTCCGTTGTGGAAGACCTTCTGGAAGACAGTGTAAACCAATAGACACTAC	8011
Sbjct	7964	CCACATCAACTCCGTTGTGGAAGACCTTCTGGAAGACAGTGTAAACCAATAGACACTAC	8023
Query	8012	CATCATGGCCAAAGACGAGGTTTTCTGCGTTTCAGCCTGAGAAGGGGGTTCGTAAGCCAGC	8071
Sbjct	8024	CATCATGGCCAAAGACGAGGTTTTCTGCGTTTCAGCCTGAGAAGGGGGTTCGTAAGCCAGC	8083
Query	8072	TCGTCATCGTGTTCCTCCGACCTGGGCGTGGCGGTGTGCGAGAAGATGGCCCTGTACGA	8131
Sbjct	8084	TCGTCATCGTGTTCCTCCGACCTGGGCGTGGCGGTGTGCGAGAAGATGGCCCTGTACGA	8143
Query	8132	CGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCC	8191
Sbjct	8144	CGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCC	8203
Query	8192	AGGACAGCGGGTTGAATTCTCTGTCGAAGCGTGGAAAGTCCAAGAAGACCCGATGGGGTT	8251
Sbjct	8204	AGGACAGCGGGTTGAATTCTCTGTCGAAGCGTGGAAAGTCCAAGAAGACCCGATGGGGTT	8263
Query	8252	CTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGA	8311
Sbjct	8264	CTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGA	8323
Query	8312	GGCAATTATCAATGTTGTGACCTGGACCCCCAAGCCCGGTGGCCATCAAGTCCCTCAC	8371
Sbjct	8324	GGCAATTATCAATGTTGTGACCTGGACCCCCAAGCCCGGTGGCCATCAAGTCCCTCAC	8383
Query	8372	TGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAAAACCTGCGGCTACCG	8431
Sbjct	8384	TGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAAAACCTGCGGCTACCG	8443
Query	8432	CAGGTGCCGCGCAGCGCGCTACTGACAACCTAGCTGTGGTAAACACCCCTCACTTGCTACAT	8491
Sbjct	8444	CAGGTGCCGCGCAGCGCGCTACTGACAACCTAGCTGTGGTAAACACCCCTCACTTGCTACAT	8503
Query	8492	CAAGGCCCGGGCAGCCTGTCGAGCCGCAAGGCTCCAGGACTGCACCATGCTCGTGTGTGG	8551
Sbjct	8504	CAAGGCCCGGGCAGCCTGTCGAGCCGCAAGGCTCCAGGACTGCACCATGCTCGTGTGTGG	8563
Query	8552	CGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGTCAGGAGGACGCGGCAGCCTGAG	8611
Sbjct	8564	CGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGTCAGGAGGACGCGGCAGCCTGAG	8623
Query	8612	AGCCTTCACGGAGGCTATGACCAAGTACTCCGccccccgggggacccccACAACCAGA	8671
Sbjct	8624	AGCCTTCACGGAGGCTATGACCAAGTACTCCGCCCCCGGGGACCCCCACAACCAGA	8683
Query	8672	ATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCACTCGCCACGACGGCGC	8731
Sbjct	8684	ATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCACTCGCCACGACGGCGC	8743
Query	8732	TGGAAGAGGGGTCTACTACCTTACCCGTGACCTTACAACCCCTCGCGAGAGCCGCGTG	8791
Sbjct	8744	TGGAAGAGGGGTCTACTACCTTACCCGTGACCTTACAACCCCTCGCGAGAGCCGCGTG	8803
Query	8792	GGAGACAGCAAGACACACTCCAGTCAATTCTCTGGCTAGGCAACATAATCATGTTTGGCCC	8851
Sbjct	8804	GGAGACAGCAAGACACACTCCAGTCAATTCTCTGGCTAGGCAACATAATCATGTTTGGCCC	8863
Query	8852	CACACTGTGGGCGAGGATGATACTGATGACCCATTCTTTAGGCTCCTCATAGCCAGGGA	8911
Sbjct	8864	CACACTGTGGGCGAGGATGATACTGATGACCCATTCTTTAGGCTCCTCATAGCCAGGGA	8923
Query	8912	TCAGCTTGAACAGGCTCTTAAGTGTGAGATCTACGGAGCCTGCTACTCCATAGAACCCT	8971
Sbjct	8924	TCAGCTTGAACAGGCTCTTAAGTGTGAGATCTACGGAGCCTGCTACTCCATAGAACCCT	8983

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Query 8972  GGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTA 9031
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Sbjct 8984  GGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTA 9043
          |||
Query 9032  CTCTCCAGGTTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAATTTGGGGTCCCGCCCTT 9091
          |||
Sbjct 9044  CTCTCCAGGTTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAATTTGGGGTCCCGCCCTT 9103
          |||
Query 9092  GCGAGCTTTGGAGACACCGGGCCCGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAG 9151
          |||
Sbjct 9104  GCGAGCTTTGGAGACACCGGGCCCGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAG 9163
          |||
Query 9152  GGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCAC 9211
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Sbjct 9164  GGCTGCTATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCAC 9223
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Query 9212  TCCAAATAGCGGCGCTGGCCGGCTGGACTTGTCCGGTTGGTTACAGGCTGGCTACAGCGG 9271
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Sbjct 9224  TCCAAATAGCGGCGCTGGCCGGCTGGACTTGTCCGGTTGGTTACAGGCTGGCTACAGCGG 9283
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Query 9272  GGGAGACATTATTCACAGCGTGTCTCATGCCGGCCCCCGTGGTTCTGGTTTTGGCTACT 9331
          |||
Sbjct 9284  GGGAGACATTATTCACAGCGTGTCTCATGCCGGCCCCCGTGGTTCTGGTTTTGGCTACT 9343
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Query 9332  CCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAAC 9391
          |||
Sbjct 9344  CCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAAC 9403
          |||
Query 9392  ACTCGGCGCTCTTAAGCCATTTCCCTGttttttttttttttttttttttttttttttttttt 9451
          |||
Sbjct 9404  ACTCGGCGCTCTTAAGCCATTTCCCTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 9463
          |||
Query 9452  tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9511
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Sbjct 9464  TTTTTTCTTTCCCTTCCCTTCTTTTTTTTCCCTTTCTTTTCCCTTCTTTAATGGTGGTCCA 9523
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Query 9512  TCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGATGACTGCAGAGAGTG 9571
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Sbjct 9524  TCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGATGACTGCAGAGAGTG 9583
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Query 9572  CTGATACCTGGCCCTCTCTGCAGATCATGT 9599
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Sbjct 9584  CTGATACCTGGCCCTCTCTGCAGATCATGT 9611
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Score = 1118 bits (605), Expect = 0.0
 Identities = 810/906 (89%), Gaps = 26/906 (2%)
 Strand=Plus/Plus

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Query 1  GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTG 60
Sbjct 1  GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTG 60
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Query 61  TCTTACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGCTGCAGCCTCCAGGA 120
Sbjct 61  TCTTACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGCTGCAGCCTCCAGGAC 120
          |||
Query 121  ccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCCGTTGAGTACACCGGAATTGCCAG 180
Sbjct 121  CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCCGTTGAGTACACCGGAATTGCCAG 180
          |||
Query 181  GAGCAGCCGGGTCCCTTTCTTGGATAAACCCGCTCAATGCCCTGGAGATTGGGCGTGCCCC 240
Sbjct 181  GAGCAGCCGGGTCCCTTTCTTGGATAAACCCGCTCAATGCCCTGGAGATTGGGCGTGCCCC 240
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Query 241  GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGG 300
Sbjct 241  GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGG 300
          |||
Query 301  GTGCTTGCAGATGCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360
Sbjct 301  GTGCTTGCAGATGCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360
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Query 361  CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCCAACAGGAGCTCAAGTTCCCGGGTG 420
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Sbjct 361 CTCAAGAAAAACCAAAAGAACACCAACCGTCGCCACCAAGACGTTAAGTTTCCGGGCG 420
Query 421 GCGGTGAGATCGTTGGTGGAGTTTACTTGTTCGCCGCGAGGGGCCCTAGATTGGGTGTGC 480
Sbjct 421 GCGGCCAGATCGTTGGCGGAGTATACTTGTTCGCCGCGAGGGGCCCTAGATTGGGTGTGC 480
Query 481 GCGCGACGAGGAAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCA 540
Sbjct 481 GCGCGACAAGGAAAGACTTCCGAGCGGTCCAGCCACGTGGAAGGCGCAGCCCATCCCTA 540
Query 541 AGGCA-CGTCGGC-CCGAG-GGCAGGA-CCTGGGCTCAGCCCCGGTACCCCTTGGCCCCCTC 596
Sbjct 541 AAG-ATCGGCG-CTCC-CTGGCAA-ATCCTGGGAAAAACAGGATACCCCTGGCCCCCTA 596
Query 597 TATGGCAATGAGGGT-TGCGGGTGGCGGGATGGCTCCTGCTCTCCCGTGGCTCTCGGCC 655
Sbjct 597 TACGGGAATGAGGGACT-CGGCTGGGCGAGGATGGCTCCTGTGTCGCCCGGAGGTTCCCGTCC 655
Query 656 -TAGCT-GGGGCCCCACA-GACCCCCGGCGTAGGTGCGCAATTGGGTAAAGGTCATCGA 712
Sbjct 656 CT--CTTGGGGCCCCA-ATGACCCCCGGCATAGGTGCGCAACGTGGGTAAAGGTCATCGA 712
Query 713 TACCCITACGTGCGGCTTCGCCGACCTCATGGGGTACATACC-GCTCGTCGGCGCCCCCTC 771
Sbjct 713 TACCCITACGTGCGGCTTTCGCCGACCTCATGGGGTACATCCCTG-TCGTGGGCGCCCCCGC 771
Query 772 TTGAGGCGC-CGTCAGGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTAAC 830
Sbjct 772 TCGCGGGCGTC-GCCAGAGCTCTCGCGCATGGCGTGAGAGTCTGGAAGACGGGGTTAAT 830
Query 831 TATGCAACAGGGAACCTT-CCTGGTTGCTC-TTCTCTATCTTCCCT-CTGGCCCTGCTC 887
Sbjct 831 TTTGCAACAGGGAAC-TTACCCGGTTGCTCCTTT-TCTATCTT-TTGCTGGCCCTGCTG 887
Query 888 TCTTGC 893
Sbjct 888 TCCTGC 893

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>emb|AX057092.1| Sequence 7 from Patent W00075338
Length=9611

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.263e+04 bits (6838), Expect = 0.0
Identities = 6858/6868 (99%), Gaps = 0/6868 (0%)
Strand=Plus/Plus

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Query 2732 CTTGCTCTCTGCTGGCGTTGCTCTACGCGGGCATAACGCACTGGACACGGAGGTGGCCCGCTC 2791
Sbjct 2744 CCTACTGCTCTCTAGCATTTGCCCAACAGGCATATGCACTGGACACGGAGGTGGCCCGCTC 2803
Query 2792 GTGTGGCGGCGTTGTTCTTGTTCGGGTTAATGGCGCTGACTCTGTGCGCATATTACAAGCG 2851
Sbjct 2804 GTGTGGCGGCGTTGTTCTTGTTCGGGTTAATGGCGCTGACTCTGTGCGCATATTACAAGCG 2863
Query 2852 CTATATCAGCTGGTGCACTGGTGGCTTCAGTATTTTCTGACCAGAGTAGAAGCGCAACT 2911
Sbjct 2864 CTATATCAGCTGGTGCACTGGTGGCTTCAGTATTTTCTGACCAGAGTAGAAGCGCAACT 2923
Query 2912 GCACGTGTGGGTTTCCCCCTCAACGTCCTGGGGGGGCGCGATGCCGTCATCTTACTCAT 2971
Sbjct 2924 GCACGTGTGGGTTTCCCCCTCAACGTCCTGGGGGGGCGCGATGCCGTCATCTTACTCAT 2983
Query 2972 GTGTGTAGTACACCCGACCTGGTATTTGACATACCAAACTACTCCTGGCCATCTTCGG 3031
Sbjct 2984 GTGTGTAGTACACCCGACCTGGTATTTGACATACCAAACTACTCCTGGCCATCTTCGG 3043
Query 3032 ACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCTACTTCGTGCGCGTTCAAGG 3091
Sbjct 3044 ACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCTACTTCGTGCGCGTTCAAGG 3103
Query 3092 CCTTCTCCGGATCTGCGCGTAGCGCGGAAGATAGCCGGAGGTCATTACGTGCAAAATGGC 3151

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Sbjct	3104	CCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATAGCCGGAGGTCATTACGTGCAAAATGGC	3163
Query	3152	CATCATCAAGTATAGGGGCGCTTACTGGCACCTATGTGTATAAACATCTCACCCCTCTTCG	3211
Sbjct	3164	CATCATCAAGTATAGGGGCGCTTACTGGCACCTATGTGTATAAACATCTCACCCCTCTTCG	3223
Query	3212	AGACTGGGCGCAAAACGGCTGCGAGATCTGGCCGTGGCTGTGGAAACAGTCGCTTCTTC	3271
Sbjct	3224	AGACTGGGCGCAAAACGGCTGCGAGATCTGGCCGTGGCTGTGGAAACAGTCGCTTCTTC	3283
Query	3272	CCGAATGGAGACCAAGCTCATCAGTGGGGGCGAGATACCGCCCGTGGCGTGACATCAT	3331
Sbjct	3284	CCGAATGGAGACCAAGCTCATCAGTGGGGGCGAGATACCGCCCGTGGCGTGACATCAT	3343
Query	3332	CAACGGCTTGCCCGTCTCTGCCCGTAGGGGCGAGAGATACTGCTTGGGCGAGCCGACGG	3391
Sbjct	3344	CAACGGCTTGCCCGTCTCTGCCCGTAGGGGCGAGAGATACTGCTTGGGCGAGCCGACGG	3403
Query	3392	AATGGTCTCCAAGGGGTGGAGGTGTCTGGCGCCCATCAGCGCGTACGCCAGCAGACGAG	3451
Sbjct	3404	AATGGTCTCCAAGGGGTGGAGGTGTCTGGCGCCCATCAGCGCGTACGCCAGCAGACGAG	3463
Query	3452	AGGCCTCTTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGG	3511
Sbjct	3464	AGGCCTCTTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGG	3523
Query	3512	TGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCTGGCAACGTGCATCAATGGGGT	3571
Sbjct	3524	TGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCTGGCAACGTGCATCAATGGGGT	3583
Query	3572	ATGCTGGAGTGTCTACCACGGGGCGGAACGAGGACATCGCATACCCAAGGGTCTCTGT	3631
Sbjct	3584	ATGCTGGAGTGTCTACCACGGGGCGGAACGAGGACATCGCATACCCAAGGGTCTCTGT	3643
Query	3632	CATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGTGGCCCGTCTCTCAAGGTTTC	3691
Sbjct	3644	CATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGTGGCCCGTCTCTCAAGGTTTC	3703
Query	3692	CCGCTCAITGACACCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGC	3751
Sbjct	3704	CCGCTCAITGACACCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGC	3763
Query	3752	CGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTCGCCCGGGCC	3811
Sbjct	3764	CGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTCGCCCGGGCC	3823
Query	3812	CATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCCGTGTTGTGCCCGCGGGACACGCCGT	3871
Sbjct	3824	CATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCCGTGTTGTGCCCGCGGGACACGCCGT	3883
Query	3872	GGGCTATTACAGGGCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGGAATTATATCC	3931
Sbjct	3884	GGGCTATTACAGGGCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGGAATTATATCC	3943
Query	3932	TGTGGAGAACCTAGGGACAAACATGAGATCCCCGGTGTTCACGGACAACCTCCTCTCCACC	3991
Sbjct	3944	TGTGGAGAACCTAGGGACAAACATGAGATCCCCGGTGTTCACGGACAACCTCCTCTCCACC	4003
Query	3992	AGCAGTGCCCCAGAGCTTCCAGGTGGCCCACTGCATGCTCCACCGGACGGTAAAGAG	4051
Sbjct	4004	AGCAGTGCCCCAGAGCTTCCAGGTGGCCCACTGCATGCTCCACCGGACGGTAAAGAG	4063
Query	4052	CACCAAGGTGCCCGCTGCGTACGCAGCCAGGGCTACAAGGTGTGGTGCTCAACCCCTC	4111
Sbjct	4064	CACCAAGGTGCCCGCTGCGTACGCAGCCAGGGCTACAAGGTGTGGTGCTCAACCCCTC	4123
Query	4112	TGTTGCTGCAACGCTGGGCTTGGTGCTTACATGTCCAAGGCCCATGCGGTGTATCCTAA	4171
Sbjct	4124	TGTTGCTGCAACGCTGGGCTTGGTGCTTACATGTCCAAGGCCCATGCGGTGTATCCTAA	4183
Query	4172	TATCAGGACCGGGGTGAGAACAAATTACCACTGGCAGCCCCATCAGTACTCCACCTACGG	4231
Sbjct	4184	TATCAGGACCGGGGTGAGAACAAATTACCACTGGCAGCCCCATCAGTACTCCACCTACGG	4243
Query	4232	CAAGTTCGTTGGCGACGGCGGGTGCTCAGGAGTGCTTATGACATAATAATTGTGACGA	4291

Sbjct	4244	CAAGTTCCTTCCGACGCGGGTGTCTAGGAGGTGCTTATGACATAATAATTGTGACGA	4303
Query	4292	GTGCCACTCTCCACGGATGCCACATCCATCTTGGGCATCGGCACCTGTCCCTTGACCAAGCAGA	4351
Sbjct	4304	GTGCCACTCTCCACGGATGCCACATCCATCTTGGGCATCGGCACCTGTCCCTTGACCAAGCAGA	4363
Query	4352	GACTGCGGGGGGAGAGCTGGTTGTGCTCGCCACTGCTACCCCTCCGGGCTCCGCTACTGT	4411
Sbjct	4364	GACTGCGGGGGGAGAGCTGGTTGTGCTCGCCACTGCTACCCCTCCGGGCTCCGCTACTGT	4423
Query	4412	GTCCCATCTTAACATCGAGGAGGTGCTCTGTCCACCACCGGAGAGATCCCCCTTTTACGG	4471
Sbjct	4424	GTCCCATCTTAACATCGAGGAGGTGCTCTGTCCACCACCGGAGAGATCCCCCTTTTACGG	4483
Query	4472	CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAA	4531
Sbjct	4484	CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAA	4543
Query	4532	GAAGAAGTGCAGGAGCTCGCCGGAAGCTGGTCGCAITGGGCATCAATGCCGTGGCCCTA	4591
Sbjct	4544	GAAGAAGTGCAGGAGCTCGCCGGAAGCTGGTCGCAITGGGCATCAATGCCGTGGCCCTA	4603
Query	4592	CTACCGCGGTCTTGACGTGTCTGTATCCCGACGCGGCGATGTTGTCTGCTGTCTGCAC	4651
Sbjct	4604	CTACCGCGGTCTTGACGTGTCTGTATCCCGACGCGGCGATGTTGTCTGCTGTCTGCAC	4663
Query	4652	CGATGCTCTCATGACTGGCTTTTACCGCGGACTTTCGACTCTGTGATAGACTGCAACACGTG	4711
Sbjct	4664	CGATGCTCTCATGACTGGCTTTTACCGCGGACTTTCGACTCTGTGATAGACTGCAACACGTG	4723
Query	4712	TGTCACTCAGACAGTCGATTTTACGCTTTCGACCTTACCTTTACCAITGAGACAACACGCT	4771
Sbjct	4724	TGTCACTCAGACAGTCGATTTTACGCTTTCGACCTTACCTTTACCAITGAGACAACACGCT	4783
Query	4772	CCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGGGAAGCCAGG	4831
Sbjct	4784	CCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGGGAAGCCAGG	4843
Query	4832	CATCTATAGATTGTGGCACCGGGGAGCGCCCTCCGGCATGTTTCGACTCGTCCGCTCT	4891
Sbjct	4844	CATCTATAGATTGTGGCACCGGGGAGCGCCCTCCGGCATGTTTCGACTCGTCCGCTCT	4903
Query	4892	CTGTGAGTGTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGT	4951
Sbjct	4904	CTGTGAGTGTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGT	4963
Query	4952	TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATTCTGAATT	5011
Sbjct	4964	TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATTCTGAATT	5023
Query	5012	TTGGAGGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTATCCAGACAAA	5071
Sbjct	5024	TTGGAGGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTATCCAGACAAA	5083
Query	5072	GCAGAGTGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCCTGTGCGCTAGGGC	5131
Sbjct	5084	GCAGAGTGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCCTGTGCGCTAGGGC	5143
Query	5132	TCAAGCCCTCCCCCATCGTGGGACCAGATGIGGAAGTGTTTATCGCCCTTAAACCCAC	5191
Sbjct	5144	TCAAGCCCTCCCCCATCGTGGGACCAGATGIGGAAGTGTTTATCGCCCTTAAACCCAC	5203
Query	5192	CTCTCAAGGGCCAAACCCCTGCTATACAGACTGGGCGCTGTTCAGAAATGAAGTACACCT	5251
Sbjct	5204	CTCTCAAGGGCCAAACCCCTGCTATACAGACTGGGCGCTGTTCAGAAATGAAGTACACCT	5263
Query	5252	GACGCACCCAATACCAAATACATCATGACATGCATGTCGGCCGACCTGGAGGTGCTGCAC	5311
Sbjct	5264	GACGCACCCAATACCAAATACATCATGACATGCATGTCGGCCGACCTGGAGGTGCTGCAC	5323
Query	5312	GAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTCTGGCCGCGTATTGCCTGTCAAC	5371
Sbjct	5324	GAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTCTGGCCGCGTATTGCCTGTCAAC	5383
Query	5372	AGGCTGCGTGTGCATAGTGGGAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGA	5431

Sbjct	5384	AGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCGGGAAGCCGGCAATTATACCTGA	5443
Query	5432	CAGGGAGGTTCTCTACCAGAGTTTCATGAGATGGAAGAGTGCCTCAGCACTTACCCTGA	5491
Sbjct	5444	CAGGGAGGTTCTCTACCAGAGTTTCATGAGATGGAAGAGTGCCTCAGCACTTACCCTGA	5503
Query	5492	CATCGAGCAAGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTCGCA	5551
Sbjct	5504	CATCGAGCAAGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTCGCA	5563
Query	5552	GACCCGCTCCCGCCATGCAAGGTTATCACCCCTGCTGTCAGACCAACTGGCAGAAACT	5611
Sbjct	5564	GACCCGCTCCCGCCATGCAAGGTTATCACCCCTGCTGTCAGACCAACTGGCAGAAACT	5623
Query	5612	CGAGGTCCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACAATACTTGGCGGG	5671
Sbjct	5624	CGAGGTCCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACAATACTTGGCGGG	5683
Query	5672	CTGTCAACGCTGCCTGGTAACCCCGCCATTCCTTCATTGATGGCTTTTACAGCTGCCGT	5731
Sbjct	5684	CTGTCAACGCTGCCTGGTAACCCCGCCATTCCTTCATTGATGGCTTTTACAGCTGCCGT	5743
Query	5732	CACCGAGCCCACTAACCACTGGCCAAACCTCTCTTCAACATATTGGGGGGTGGGTGGC	5791
Sbjct	5744	CACCGAGCCCACTAACCACTGGCCAAACCTCTCTTCAACATATTGGGGGGTGGGTGGC	5803
Query	5792	TGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTTGGGGTGTGGCTAGCTGGCGC	5851
Sbjct	5804	TGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTTGGGGTGTGGCTAGCTGGCGC	5863
Query	5852	CGCCATCGGCAGCGTTGGACTGGGGAAGTCTCTCGTGACATTCCTTCAGGGTATGGCGC	5911
Sbjct	5864	CGCCATCGGCAGCGTTGGACTGGGGAAGTCTCTCGTGACATTCCTTCAGGGTATGGCGC	5923
Query	5912	GGCGTGGCGGGAGCTCTTGTAGCATTCAGATCATGAGCGGTGAGGTCCCTCCACGGA	5971
Sbjct	5924	GGCGTGGCGGGAGCTCTTGTAGCATTCAGATCATGAGCGGTGAGGTCCCTCCACGGA	5983
Query	5972	GGACCTGGTCAATCTGCTGCCCGCATTCCTCTCGCTGGAGCCCTTGTAGTCGGTGTGT	6031
Sbjct	5984	GGACCTGGTCAATCTGCTGCCCGCATTCCTCTCGCTGGAGCCCTTGTAGTCGGTGTGT	6043
Query	6032	CTGCGCAGCAATACTGCGCCGGCAGCTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAA	6091
Sbjct	6044	CTGCGCAGCAATACTGCGCCGGCAGCTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAA	6103
Query	6092	CCGGCTAATAGCCTTCGCTCCCGGGGAACCATGTTTCCCCACGCACTACGTGCCGGA	6151
Sbjct	6104	CCGGCTAATAGCCTTCGCTCCCGGGGAACCATGTTTCCCCACGCACTACGTGCCGGA	6163
Query	6152	GAGCGATGCAGCGCCCGCGTCACTGCCATCTCAGCAGCTCCTGTAAACCCAGCTCCT	6211
Sbjct	6164	GAGCGATGCAGCGCCCGCGTCACTGCCATCTCAGCAGCTCCTGTAAACCCAGCTCCT	6223
Query	6212	GAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTAACCACTCCATGCTCCGGTTCCTGGCT	6271
Sbjct	6224	GAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTAACCACTCCATGCTCCGGTTCCTGGCT	6283
Query	6272	AAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGC	6331
Sbjct	6284	AAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGC	6343
Query	6332	CAAGTCAATGCCAACAATGCCTGGGATTCCCTTTGTGTCTGCGCAGCGCGGGTATAGGGG	6391
Sbjct	6344	CAAGTCAATGCCAACAATGCCTGGGATTCCCTTTGTGTCTGCGCAGCGCGGGTATAGGGG	6403
Query	6392	GGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGG	6451
Sbjct	6404	GGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGG	6463
Query	6452	ACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTAGGACCTGCAGGAACATGTGGAG	6511
Sbjct	6464	ACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTAGGACCTGCAGGAACATGTGGAG	6523
Query	6512	TGGGACGTTCCCCATTAAACGCTACACCAGGGCCCTGTACTCCCTTCCTGCGCCGAA	6571

Sbjct	6524	TGGGACGT TCCCCATTAACGCTACACCACGGGCCCTGTACTCCCCTTCCTGCGCCGAA	6583
Query	6572	CTATAAGT TCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGCGGGGTGGG	6631
Sbjct	6584	CTATAAGT TCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGCGGGGTGGG	6643
Query	6632	GGACTTCCACTACGTATCGGGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCC	6691
Sbjct	6644	GGACTTCCACTACGTATCGGGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCC	6703
Query	6692	ATCGCCCGAATTTTTTACAGAAATTGGACGGGGTGCCTACACAGGTTTGCGCCCTTG	6751
Sbjct	6704	ATCGCCCGAATTTTTTACAGAAATTGGACGGGGTGCCTACACAGGTTTGCGCCCTTG	6763
Query	6752	CAAGCCCTTGCTCGGGAGGAGGTATCATTACAGATAGGACTCCACGAGTACCCGGTGGG	6811
Sbjct	6764	CAAGCCCTTGCTCGGGAGGAGGTATCATTACAGATAGGACTCCACGAGTACCCGGTGGG	6823
Query	6812	GTCGCAATTACCTTGCAGAGCCGAACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGA	6871
Sbjct	6824	GTCGCAATTACCTTGCAGAGCCGAACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGA	6883
Query	6872	TCCTCCCATATTAACAGCAGAGGCGGCCGGGAGAGGTTGGCGAGAGGGTACCCCCCTTC	6931
Sbjct	6884	TCCTCCCATATTAACAGCAGAGGCGGCCGGGAGAGGTTGGCGAGAGGGTACCCCCCTTC	6943
Query	6932	TATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGC	6991
Sbjct	6944	TATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGC	7003
Query	6992	CAACATGACTCCCTTGACGCCGAGCTCATAGAGCTAACTCCTGTGGAGGCAGGAGAT	7051
Sbjct	7004	CAACATGACTCCCTTGACGCCGAGCTCATAGAGCTAACTCCTGTGGAGGCAGGAGAT	7063
Query	7052	GGCGGGCAACATCACCAGGGTTAGTTCAGAGAACAAGTGGTGATTCTTGGACTCCTTCGA	7111
Sbjct	7064	GGCGGGCAACATCACCAGGGTTAGTTCAGAGAACAAGTGGTGATTCTTGGACTCCTTCGA	7123
Query	7112	TCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATTCGCGGAA	7171
Sbjct	7124	TCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATTCGCGGAA	7183
Query	7172	GTCTCGGAGATTGCCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGACTACAACCCCCGCT	7231
Sbjct	7184	GTCTCGGAGATTGCCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGACTACAACCCCCGCT	7243
Query	7232	AGTAGAGACGTGGAAAAAGCCTGACTACGAACACCTGTGGTCCATGGCTGCCCGCTACC	7291
Sbjct	7244	AGTAGAGACGTGGAAAAAGCCTGACTACGAACACCTGTGGTCCATGGCTGCCCGCTACC	7303
Query	7292	ACCTCCACGGTCCCTTCCTGTGCCTCCGCCTCGGAAAAAGCGTACGGTGGTCTCACCGA	7351
Sbjct	7304	ACCTCCACGGTCCCTTCCTGTGCCTCCGCCTCGGAAAAAGCGTACGGTGGTCTCACCGA	7363
Query	7352	ATCAACCCATATCTACTGCTTGGCCGAGCTTGCCACCAAAAGTTTGGCAGCTCCTCAAC	7411
Sbjct	7364	ATCAACCCATATCTACTGCTTGGCCGAGCTTGCCACCAAAAGTTTGGCAGCTCCTCAAC	7423
Query	7412	TTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCC	7471
Sbjct	7424	TTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCC	7483
Query	7472	ccccGACTTCGAGCTTGTAGTCTATTCTTCCATGccccTGGAGGGGGAGCCTGGGGA	7531
Sbjct	7484	CCCCGACTTCGAGCTTGTAGTCTATTCTTCCATGCCCCCTGGAGGGGGAGCCTGGGGA	7543
Query	7532	TCCGGATCTCAGCGACGGGTATGGTCGACGGTCACTAGTGGGGCCGACACGGAAGATGT	7591
Sbjct	7544	TCCGGATCTCAGCGACGGGTATGGTCGACGGTCACTAGTGGGGCCGACACGGAAGATGT	7603
Query	7592	CGTGTGCTGCTCAATGTCTTATTCTTGACAGGCGCACTCGTACCCCGTGCCTGCGGA	7651
Sbjct	7604	CGTGTGCTGCTCAATGTCTTATTCTTGACAGGCGCACTCGTACCCCGTGCCTGCGGA	7663
Query	7652	AGAACAAAACCTGCCCATCAACGCACCTGAGCAACTCGTTGCTACGCCATCAACAATCTGGT	7711

Sbjct	7664	AGAACAAAAC TGCCATCAACGCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGT	7723
Query	7712	GTATTCCACCACTTCACGCACTGCTTGCCAAAGGCAGAAAGAGTACATTGACAGACT	7771
Sbjct	7724	GTATTCCACCACTTCACGCACTGCTTGCCAAAGGCAGAAAGAGTACATTGACAGACT	7783
Query	7772	GCAAGTTC TGGAAGCATTACAGGACGTGCTCAAGGAGGTCAAAGCAGCGCGTCAAA	7831
Sbjct	7784	GCAAGTTC TGGAAGCATTACAGGACGTGCTCAAGGAGGTCAAAGCAGCGCGTCAAA	7843
Query	7832	AGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACGCTGACGCCCCACATTACG	7891
Sbjct	7844	AGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACGCTGACGCCCCACATTACG	7903
Query	7892	CAATCCAAAGTTTGGCTATGGGCAAAAGACGTCCGTTGCCATGCCAGAAAGCCGTAGC	7951
Sbjct	7904	CAATCCAAAGTTTGGCTATGGGCAAAAGACGTCCGTTGCCATGCCAGAAAGCCGTAGC	7963
Query	7952	CCACATCAACTCCGTGTGGAAGACCTTCTGGAAGACAGTGAACACCAATAGACACTAC	8011
Sbjct	7964	CCACATCAACTCCGTGTGGAAGACCTTCTGGAAGACAGTGAACACCAATAGACACTAC	8023
Query	8012	CATCATGGCCAAGAACGAGGTTTTCTGCGTTTTCAGCCTGAGAAAGGGGGTTCGTAAGCCAGC	8071
Sbjct	8024	CATCATGGCCAAGAACGAGGTTTTCTGCGTTTTCAGCCTGAGAAAGGGGGTTCGTAAGCCAGC	8083
Query	8072	TCGTCTCATCGTGTTCCCGACCTGGGCGTGCAGCTGTGCGGAGAAGATGGCCCTGTACGA	8131
Sbjct	8084	TCGTCTCATCGTGTTCCCGACCTGGGCGTGCAGCTGTGCGGAGAAGATGGCCCTGTACGA	8143
Query	8132	CTGTGTTAGCAAGCTCCCGTGGCCGTGATGGGAAGCTCTACGATTCCAATACTACAC	8191
Sbjct	8144	CTGTGTTAGCAAGCTCCCGTGGCCGTGATGGGAAGCTCTACGATTCCAATACTACAC	8203
Query	8192	AGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGAAGTCCAAGAAGACCCCGATGGGGTT	8251
Sbjct	8204	AGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGAAGTCCAAGAAGACCCCGATGGGGTT	8263
Query	8252	CTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGA	8311
Sbjct	8264	CTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGA	8323
Query	8312	GGCAATTTACCAATGTTGTGACCTGGACCCCAAGCCCGGTGGCCATCAAGTCCCTCAC	8371
Sbjct	8324	GGCAATTTACCAATGTTGTGACCTGGACCCCAAGCCCGGTGGCCATCAAGTCCCTCAC	8383
Query	8372	TGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAAAAC TCGCGCTACCG	8431
Sbjct	8384	TGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAAAAC TCGCGCTACCG	8443
Query	8432	CAGGTGCCGCGGAGCGCGCTACTGACAACTAGCTGTGGTAAACCCCTCACTTGCTACAT	8491
Sbjct	8444	CAGGTGCCGCGGAGCGCGCTACTGACAACTAGCTGTGGTAAACCCCTCACTTGCTACAT	8503
Query	8492	CAAGGCCCGGGCAGCCTGTCGAGCCGAGGGCTCCAGGACTGCACCATGCTCGTGTGTGG	8551
Sbjct	8504	CAAGGCCCGGGCAGCCTGTCGAGCCGAGGGCTCCAGGACTGCACCATGCTCGTGTGTGG	8563
Query	8552	CGACGACTTAGTCGTTATCTGTGAAAGTGCAGGGGTCCAGGAGGACGCGGCGAGCCTGAG	8611
Sbjct	8564	CGACGACTTAGTCGTTATCTGTGAAAGTGCAGGGGTCCAGGAGGACGCGGCGAGCCTGAG	8623
Query	8612	AGCCTTACCGAGGCTATGACCAGGTACTCCGccccccggggagccccACAACCAGA	8671
Sbjct	8624	AGCCTTACCGAGGCTATGACCAGGTACTCCGCCCCCGGGGACCCCCACAACCAGA	8683
Query	8672	ATACGACTTGGAGCTTATAACATCATGCTCCTCCAAGTGTGCTGCGCCACGACGGCGC	8731
Sbjct	8684	ATACGACTTGGAGCTTATAACATCATGCTCCTCCAAGTGTGCTGCGCCACGACGGCGC	8743
Query	8732	TGGAAGAGGGTCTACTACCTTACCCGTGACCTACAACCCCTCGCGAGAGCCGCGTG	8791
Sbjct	8744	TGGAAGAGGGTCTACTACCTTACCCGTGACCTACAACCCCTCGCGAGAGCCGCGTG	8803
Query	8792	GGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCAACATAATCATGTTTGGCCC	8851

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Sbjct  8804  GGAGACAGCAAGACACACTCCAGTCAATTCCCTGGCTAGGCAACATAATCATGTTTGCCTCC 8863
Query   8852  CACACTGTGGGGGAGGATGATACTGATGACCCATTTCCTTTAGCGTCCTCATAGCCAGGGA 8911
Sbjct  8864  CACACTGTGGGGGAGGATGATACTGATGACCCATTTCCTTTAGCGTCCTCATAGCCAGGGA 8923
Query   8912  TCAGCTTGAACAGGCTCTTAAGTGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACT 8971
Sbjct  8924  TCAGCTTGAACAGGCTCTTAAGTGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACT 8983
Query   8972  GGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTA 9031
Sbjct  8984  GGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTA 9043
Query   9032  CTCTCCAGGTGAAATCAATAGGGTGGCCGATGCCCTCAGAAAACCTGGGGTCCCGCCCTT 9091
Sbjct  9044  CTCTCCAGGTGAAATCAATAGGGTGGCCGATGCCCTCAGAAAACCTGGGGTCCCGCCCTT 9103
Query   9092  GCGAGCTTGGAGACACCGGGCCCGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAG 9151
Sbjct  9104  GCGAGCTTGGAGACACCGGGCCCGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAG 9163
Query   9152  GGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCGAGTAAAGACAAAGCTCAAACCTAC 9211
Sbjct  9164  GGCTGCTATATGTGGCAAGTACCTCTTCAACTGGGCGAGTAAAGACAAAGCTCAAACCTAC 9223
Query   9212  TCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCGGTTGGTTCACGGCTGGCTACAGCGG 9271
Sbjct  9224  TCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCGGTTGGTTCACGGCTGGCTACAGCGG 9283
Query   9272  GGGAGACATTTATACACAGCGTGTCTCATGCCCGGCCCGCTGGTTCCTGGTTTTCGCTACT 9331
Sbjct  9284  GGGAGACATTTATACACAGCGTGTCTCATGCCCGGCCCGCTGGTTCCTGGTTTTCGCTACT 9343
Query   9332  CTGCTCGCTGCAGGGGTAGGCATCTACCTCTCCCCAACCGATGAAGGTTGGGGTAAAC 9391
Sbjct  9344  CTGCTCGCTGCAGGGGTAGGCATCTACCTCTCCCCAACCGATGAAGGTTGGGGTAAAC 9403
Query   9392  ACTCCGGCCCTCTTAAGCCATTTCCTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 9451
Sbjct  9404  ACTCCGGCCCTCTTAAGCCATTTCCTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 9463
Query   9452  TTTTTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCT 9511
Sbjct  9464  TTTTTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCT 9523
Query   9512  TCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCTGAGCCGATGACTGCAGAGAGTG 9571
Sbjct  9524  TCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCTGAGCCGATGACTGCAGAGAGTG 9583
Query   9572  CTGATACCTGGCCTCTCTGCAGATCATGT 9599
Sbjct  9584  CTGATACCTGGCCTCTCTGCAGATCATGT 9611

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Score = 1118 bits (605), Expect = 0.0
 Identities = 810/906 (89%), Gaps = 26/906 (2%)
 Strand=Plus/Plus

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Query   1      GCCAGGCCCTTGATGGGGGCGACACTCCACCATGAATCACCCTCTGTAGGAACTACTG 60
Sbjct   1      GCCAGGCCCTTGATGGGGGCGACACTCCACCATGAATCACCCTCTGTAGGAACTACTG 60
Query   61      TCTTACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGCTGCAGCCTCCAGGA 120
Sbjct   61      TCTTACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGCTGCAGCCTCCAGGAC 120
Query   121     CCGGCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Sbjct   121     CCGGCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Query   181     GACGACCGGGTCCCTTCTTGGATAAACCCGCTCAATGCTTGGAGATTGGGCGTGCCCC 240
Sbjct   181     GACGACCGGGTCCCTTCTTGGATAAACCCGCTCAATGCTTGGAGATTGGGCGTGCCCC 240
Query   241     GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAGGCCCTGTGTGACTGCCTGATAGG 300

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Sbjct 241  ||||| 300
GCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCCTGTGGTACTGCCTGATAGG
Query 301  ||||| 360
GTGCTTGCAGATGCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC
Sbjct 301  ||||| 360
GTGCTTGCAGATGCCCGGGAGGTCTCGTAGACCGTGACCATGAGCAGCAATCCTAAAC
Query 361  ||||| 420
CTCAAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAGTTCCCGGGTG
Sbjct 361  ||||| 420
CTCAAAGAAAAACCAAGAAACACCAACCGTCGCCACAGAGCGTTAAGTTCCCGGGCG
Query 421  ||||| 480
GCGGTGAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC
Sbjct 421  ||||| 480
GCGGCCAGATCGTTGGCGGAGTATACTTGTGTGCCGCGCAGGGGCCCCAGGTTGGGTGTGC
Query 481  ||||| 540
GCGCGAGGAGGAAGACTTCCGAGCGGTTCGAACCTCGAGGTAGAGTCAGCCTATCCCA
Sbjct 481  ||||| 540
GCGCGACAAGGAAGACTTCCGAGCGGTCCAGCCACGTGGAAGCGCCAGCCCATCCCTA
Query 541  ||||| 596
AGGCA-CGTCGGC-CCGAG-GGCAGGA-CCTGGGCTCAGCCCGGGTACCCCTGGCCCTC
Sbjct 541  ||||| 596
AAG-ATCGGCG-CTCC-ACTGGCAA-ATCTGGGGAACCAAGGATACCCCTGGCCCTA
Query 597  ||||| 655
TATGGCAATGAGGGT-TGCCGGTGGCGGGATGGCTCCTGTCTCCCGTGGCTCTCGGCC
Sbjct 597  ||||| 655
TACGGGAATGAGGGACT-CGGCTGGGAGGATGGCTCCTGTCTCCCGCAGGTTCCCGTCC
Query 656  ||||| 712
-TAGCT-GGGGCCCCACA-GACCCCCGGCTAGGTCGCGCAATTGGGTAAAGTCATCGA
Sbjct 656  ||||| 712
CT--CTTGGGGCCCCA-ATGACCCCCGGCATAGGTCGCGCAACGTGGGTAAAGTCATCGA
Query 713  ||||| 771
TACCCTTACGTGCGGCTTCGCGGACCTCATGGGGTACATACC-GCTCGTCGGCGCCCTC
Sbjct 713  ||||| 771
TACCCTAACGTGCGGCTTTGCGGACCTCATGGGGTACATCCCTG-TCGTGGCGCCCCGC
Query 772  ||||| 830
TTGGAGGCG-CTGCGAGGGCCCTGGCGCATGGCGTCCGGGTCTTGAAGACGGCGTAAC
Sbjct 772  ||||| 830
TCGGCGGCGTC-GCCAGAGCTCTCGCGCATGGCGTGAGAGTCTTGAGAGACGGGGTTAAT
Query 831  ||||| 887
TATGCAACAGGGAACCTT-CCTGGTTGCTC-TTCTCTATCTTCCTT-CTGCCCCTGCTC
Sbjct 831  ||||| 887
TTTGCAACAGGGAAC-TTACCCGGTTGCTCCTTT-TCATATCTT-TTGCTGGCCCTGCTG
Query 888  || 893
TCTTGC
Sbjct 888  || 893
TCCTGC

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>emb|AX057088.1| Sequence 3 from Patent WO0075338
Length=9611

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.263e+04 bits (6838), Expect = 0.0
Identities = 6858/6868 (99%), Gaps = 0/6868 (0%)
Strand=Plus/Plus

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Query 2732  ||||| 2791
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Sbjct 2744  ||||| 2803
CCTACTGCTCCTAGCATTTGCCCAACAGGCATATGCACTGGACACGGAGTGGCCGCGTC
Query 2792  ||||| 2851
GTGTGGCGGGGTTGTTCTTGTGCGGGTTAATGGCGTGACTCTGTGCGCATATTACAAGCG
Sbjct 2804  ||||| 2863
GTGTGGCGGGGTTGTTCTTGTGCGGGTTAATGGCGTGACTCTGTGCGCATATTACAAGCG
Query 2852  ||||| 2911
CTATATCAGCTGGTGATGTGGTGGCTTCAATATTTCTGACCAGAGTAGAAGCGCAACT
Sbjct 2864  ||||| 2923
CTATATCAGCTGGTGATGTGGTGGCTTCAATATTTCTGACCAGAGTAGAAGCGCAACT
Query 2912  ||||| 2971
GCACGTGTGGGTTTCCCTCCCTCAACGTCCGCGGGGGCGGATGCGGTATCTTACTCAT
Sbjct 2924  ||||| 2983
GCACGTGTGGGTTCCCTCCCTCAACGTCCGCGGGGGGGCGGATGCGGTATCTTACTCAT
Query 2972  ||||| 3031
GTGTGTAGTACACCCGACCTGGTATTTGACATCACCAACTACTCTGGCCATCTTCGG

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Sbjct	2984		GTGTGTAGTACACCCGACCTGGTATTGACATCACCAAACTACTCTGGCCATCTTCGG	3043
Query	3032		ACCCCTTTGGATTCTTCAAGCCAGTTTGTCTTAAAGTCCCTACTTCGTGCGCGTCAAGG	3091
Sbjct	3044		ACCCCTTTGGATTCTTCAAGCCAGTTTGTCTTAAAGTCCCTACTTCGTGCGCGTCAAGG	3103
Query	3092		CCTTCTCCGGATCTGCGCGTAGCGCGGAAGATAGCCGGAGGTCATTACGTGCAAAATGGC	3151
Sbjct	3104		CCTTCTCCGGATCTGCGCGTAGCGCGGAAGATAGCCGGAGGTCATTACGTGCAAAATGGC	3163
Query	3152		CATCATCAAGTTAGGGGCGCTTACTTGGCACCTATGTGTATAACCATCTCACCCCTCTTCG	3211
Sbjct	3164		CATCATCAAGTTAGGGGCGCTTACTTGGCACCTATGTGTATAACCATCTCACCCCTCTTCG	3223
Query	3212		AGACTGGGCGCACAAAGGCTGCGAGATCTGGCGGTGGCTGTGGAACAGTGTCTTCTC	3271
Sbjct	3224		AGACTGGGCGCACAAAGGCTGCGAGATCTGGCGGTGGCTGTGGAACAGTGTCTTCTC	3283
Query	3272		CCGAATGGAGACCAAGCTCATCACGTGGGGGCGAGATACGCCCGGTGCGGTGACATCAT	3331
Sbjct	3284		CCGAATGGAGACCAAGCTCATCACGTGGGGGCGAGATACGCCCGGTGCGGTGACATCAT	3343
Query	3332		CAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGGCCAGCCGACGG	3391
Sbjct	3344		CAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGGCCAGCCGACGG	3403
Query	3392		AATGGTCTCCAAGGGTGGAGGTGTCTGGCGCCCATCACGGCGTACGCCAGCAGACGAG	3451
Sbjct	3404		AATGGTCTCCAAGGGTGGAGGTGTCTGGCGCCCATCACGGCGTACGCCAGCAGACGAG	3463
Query	3452		AGGCTCTCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAACCAAGTGGAGGG	3511
Sbjct	3464		AGGCTCTCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAACCAAGTGGAGGG	3523
Query	3512		TGAGTCCAGATCGTGTCAACTGCTACCCAAACCTTCTGGCAACGTGCATCAATGGGGT	3571
Sbjct	3524		TGAGTCCAGATCGTGTCAACTGCTACCCAAACCTTCTGGCAACGTGCATCAATGGGGT	3583
Query	3572		ATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATACCCAAAGGTCCTGT	3631
Sbjct	3584		ATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATACCCAAAGGTCCTGT	3643
Query	3632		CATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGTCTCTCAAGGTTT	3691
Sbjct	3644		CATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGTCTCTCAAGGTTT	3703
Query	3692		CGGCTATTGACACCTGTACCTGCGGCTCTCGGACCTTTACCTGGTCACGAGGCACGC	3751
Sbjct	3704		CGGCTATTGACACCTGTACCTGCGGCTCTCGGACCTTTACCTGGTCACGAGGCACGC	3763
Query	3752		CGATGTCATTTCCGTCGCGCCGCGAGGTGATAGCAGGGGTAGCCTGCTTTCGCCCGCGCC	3811
Sbjct	3764		CGATGTCATTTCCGTCGCGCCGCGAGGTGATAGCAGGGGTAGCCTGCTTTCGCCCGCGCC	3823
Query	3812		CATTTCTACTTGAAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCGCGGGACACGCCGT	3871
Sbjct	3824		CATTTCTACTTGAAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCGCGGGACACGCCGT	3883
Query	3872		GGGCTATTACAGGGCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCC	3931
Sbjct	3884		GGGCTATTACAGGGCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCC	3943
Query	3932		TGTGGAGAACCTAGGGACAACCATGAGATCCCGGTGTTCACGGACAACCTCTCTCCACC	3991
Sbjct	3944		TGTGGAGAACCTAGGGACAACCATGAGATCCCGGTGTTCACGGACAACCTCTCTCCACC	4003
Query	3992		AGCAGTGCCCGACAGCTTCCAGGTGGCCACCTGCATGCTCCACCCGCGAGCGTAAAG	4051
Sbjct	4004		AGCAGTGCCCGACAGCTTCCAGGTGGCCACCTGCATGCTCCACCCGCGAGCGTAAAG	4063
Query	4052		CACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTC	4111
Sbjct	4064		CACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTC	4123
Query	4112		TGTTGCTGCAACGCTGGGCTTGTGTGCTTACATGTCCAAGGCCATGGGGTTGATCTTAA	4171

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Sbjct 4124 |TGTGTGTCGAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGGGTGTAGCTCTAA| 4183
Query 4172 |TATCAGGACCGGGGTGAGAAACAATTACCAGTGGCAGCCCCATCAGTACTCCACTACGG| 4231
Sbjct 4184 |TATCAGGACCGGGGTGAGAAACAATTACCAGTGGCAGCCCCATCAGTACTCCACTACGG| 4243
Query 4232 |CAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATAAATTTGTGACGA| 4291
Sbjct 4244 |CAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATAAATTTGTGACGA| 4303
Query 4292 |GTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACGTGCTTTGACCAAGCAGA| 4351
Sbjct 4304 |GTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACGTGCTTTGACCAAGCAGA| 4363
Query 4352 |GACTCGGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGT| 4411
Sbjct 4364 |GACTCGGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGT| 4423
Query 4412 |GTCCCATCTTAACATCGAGGAGGTGCTCTGTCCACCACCGGAGAGATCCCTTTTACGG| 4471
Sbjct 4424 |GTCCCATCTTAACATCGAGGAGGTGCTCTGTCCACCACCGGAGAGATCCCTTTTACGG| 4483
Query 4472 |CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAA| 4531
Sbjct 4484 |CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAA| 4543
Query 4532 |GAAGAAGTGCAGCAGCTCGCCGGAAGCTGGTCGATTGGGCATCAATGCCGTGGCCTA| 4591
Sbjct 4544 |GAAGAAGTGCAGCAGCTCGCCGGAAGCTGGTCGATTGGGCATCAATGCCGTGGCCTA| 4603
Query 4592 |CTACCGCGGTCTTGACGTGTCTGTTCATCCGACCAGCGGCAGTGTGTGCTGTCGTGTCAG| 4651
Sbjct 4604 |CTACCGCGGTCTTGACGTGTCTGTTCATCCGACCAGCGGCAGTGTGTGCTGTCGTGTCAG| 4663
Query 4652 |CGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTG| 4711
Sbjct 4664 |CGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTG| 4723
Query 4712 |TGCTACTCAGACAGTCGATTTACGCTTGACCTTACCTTTACCATTGAGACAACACCGCT| 4771
Sbjct 4724 |TGCTACTCAGACAGTCGATTTACGCTTGACCTTACCTTTACCATTGAGACAACACCGCT| 4783
Query 4772 |CCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGGAGGACTGGCAGGGGGGAAGCCAGG| 4831
Sbjct 4784 |CCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGGAGGACTGGCAGGGGGGAAGCCAGG| 4843
Query 4832 |CATCTATAGATTTGTGGACCGGGGAGCGCCCTCCGGCATGTTTCGACTCGTCCGTCCT| 4891
Sbjct 4844 |CATCTATAGATTTGTGGACCGGGGAGCGCCCTCCGGCATGTTTCGACTCGTCCGTCCT| 4903
Query 4892 |CTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTACGCCCGCCGAGACTACAGT| 4951
Sbjct 4904 |CTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTACGCCCGCCGAGACTACAGT| 4963
Query 4952 |TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT| 5011
Sbjct 4964 |TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT| 5023
Query 5012 |TTGGGAGGGCGTCTTTACGGGCCCTCACTCATATAGATGCCCACTTTTATCCAGACAAA| 5071
Sbjct 5024 |TTGGGAGGGCGTCTTTACGGGCCCTCACTCATATAGATGCCCACTTTTATCCAGACAAA| 5083
Query 5072 |GCAGAGTGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC| 5131
Sbjct 5084 |GCAGAGTGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC| 5143
Query 5132 |TCAAGCCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC| 5191
Sbjct 5144 |TCAAGCCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC| 5203
Query 5192 |CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTGAGAATGAAGTACCCT| 5251
Sbjct 5204 |CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTGAGAATGAAGTACCCT| 5263
Query 5252 |GACGCACCAATACCAAAATACATCATGACATGCATGTCGGCCGACCTGGAGGTGTCAC| 5311
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9/8/2009

Sbjct	6404	GGTCTGGCGAGGAGACGCCATTATGCACACTCGCTGCCACTGTGGAGCTGAGACTCTGG	6463
Query	6452	ACATGTCAAAAACGGGACGATGAGGATCTGTCGGTCTCTAGGACCTGCAGGAACATGTGGAG	6511
Sbjct	6464	ACATGTCAAAAACGGGACGATGAGGATCTGTCGGTCTCTAGGACCTGCAGGAACATGTGGAG	6523
Query	6512	TGGGACGTTTCCCCATTAAACGCCCTACACCACGGGCGCCCTGTACTCCCTTCTCTGCGCCGAA	6571
Sbjct	6524	TGGGACGTTTCCCCATTAAACGCCCTACACCACGGGCGCCCTGTACTCCCTTCTCTGCGCCGAA	6583
Query	6572	CTATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAAGCGGGTGGG	6631
Sbjct	6584	CTATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAAGCGGGTGGG	6643
Query	6632	GGACTTCCACTACGTATCGGGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCC	6691
Sbjct	6644	GGACTTCCACTACGTATCGGGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCC	6703
Query	6692	ATCGCCCGAATTTTTCACAGAAATGGACGGGTGCGCCTACACAGGTTTGCGCCCCCTTG	6751
Sbjct	6704	ATCGCCCGAATTTTTCACAGAAATGGACGGGTGCGCCTACACAGGTTTGCGCCCCCTTG	6763
Query	6752	CAAGCCCTTGTCTGGCGGAGGAGGTATCAATTACAGATAGGACTCCACGAGTACCCGGTGGG	6811
Sbjct	6764	CAAGCCCTTGTCTGGCGGAGGAGGTATCAATTACAGATAGGACTCCACGAGTACCCGGTGGG	6823
Query	6812	GTCGCAATTACCTTTCGAGCGCCGAACCGGACGTAGCCGTGTTGACGTCCTAGCTCACTGA	6871
Sbjct	6824	GTCGCAATTACCTTTCGAGCGCCGAACCGGACGTAGCCGTGTTGACGTCCTAGCTCACTGA	6883
Query	6872	TCCCTCCCATAATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGAGGGTACCCCCCTTC	6931
Sbjct	6884	TCCCTCCCATAATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGAGGGTACCCCCCTTC	6943
Query	6932	TATGGCCAGCTCTCCGGCTAGCCAGCTGTCCGCTCCACTCTCTCAAGGCAACTTGCACCG	6991
Sbjct	6944	TATGGCCAGCTCTCCGGCTAGCCAGCTGTCCGCTCCACTCTCTCAAGGCAACTTGCACCG	7003
Query	6992	CAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCTCTGGGAGCAGGAGAT	7051
Sbjct	7004	CAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCTCTGGGAGCAGGAGAT	7063
Query	7052	GGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGA	7111
Sbjct	7064	GGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGA	7123
Query	7112	TCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTTCCCTAGCTGCAGAAATCTGCGGAA	7171
Sbjct	7124	TCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTTCCCTAGCTGCAGAAATCTGCGGAA	7183
Query	7172	GTCCTGGAGATTTCGCCGGGCCCTGCCGCTCTGGGCGCGGCCGACTACAACCCCCGCT	7231
Sbjct	7184	GTCCTGGAGATTTCGCCGGGCCCTGCCGCTCTGGGCGCGGCCGACTACAACCCCCGCT	7243
Query	7232	AGTAGAGAGCTGGAAAAAGCCTGACTACGAACACCCTGTGGTCCATGGCTGCCCGCTACC	7291
Sbjct	7244	AGTAGAGAGCTGGAAAAAGCCTGACTACGAACACCCTGTGGTCCATGGCTGCCCGCTACC	7303
Query	7292	ACCTCCACGGTCCCCCTCTGTGCCCTFCGCGCTCGGAAAAAGCGTACGGTGGTCTCACC	7351
Sbjct	7304	ACCTCCACGGTCCCCCTCTGTGCCCTFCGCGCTCGGAAAAAGCGTACGGTGGTCTCACC	7363
Query	7352	ATCAACCCCTATCTACTGCCTTGGCCGAGCTTGGCCACAAAAGTTTGGGAGCTCCTCAAC	7411
Sbjct	7364	ATCAACCCCTATCTACTGCCTTGGCCGAGCTTGGCCACAAAAGTTTGGGAGCTCCTCAAC	7423
Query	7412	TTCGCGCATACGGGCGACAATACGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTG	7471
Sbjct	7424	TTCGCGCATACGGGCGACAATACGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTG	7483
Query	7472	CCCCGACTCCGACGTTGAGTCTTATCTTCCATGCCCGCCCTGGAGGGGAGCCTGGGGA	7531
Sbjct	7484	CCCCGACTCCGACGTTGAGTCTTATCTTCCATGCCCGCCCTGGAGGGGAGCCTGGGGA	7543
Query	7532	TCCGGATCTCAGCGACGGGTCTAGTGTGACGGTCACTAGTGGGCGCGACACGGAAGATGT	7591

Sbjct	7544	TCCGGATCTCAGCAGCGGTCATGTGACGGTCAGTAGTGGGGCCGACACGGAAGATGT	7603
Query	7542	CGTGTGCTGCTCAATGTCCTTATCTCTGGACAGGCGCACTCGTCAACCCGTCGCTGCGGA	7651
Sbjct	7604	CGTGTGCTGCTCAATGTCCTTATCTCTGGACAGGCGCACTCGTCAACCCGTCGCTGCGGA	7663
Query	7652	AGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTGTACGCCATCAACAATCTGGT	7711
Sbjct	7664	AGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTGTACGCCATCAACAATCTGGT	7723
Query	7712	GTATTCCACCACTTACGCACTGCTTGCACAAAGGCAAGAAGGTACATTTGACAGACT	7771
Sbjct	7724	GTATTCCACCACTTACGCACTGCTTGCACAAAGGCAAGAAGGTACATTTGACAGACT	7783
Query	7772	GCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAA	7831
Sbjct	7784	GCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAA	7843
Query	7832	AGTGAAGGCTAACTTGTCTATCGTAGAGGAAGCTTGCAGCCTGACGCCCCACATTGACG	7891
Sbjct	7844	AGTGAAGGCTAACTTGTCTATCGTAGAGGAAGCTTGCAGCCTGACGCCCCACATTGACG	7903
Query	7892	CAAAATCCAAGTTTGGCTATGGGGCAAAAAGACGTCGGTTGCCATGCCAGAAAGGCCGTAGC	7951
Sbjct	7904	CAAAATCCAAGTTTGGCTATGGGGCAAAAAGACGTCGGTTGCCATGCCAGAAAGGCCGTAGC	7963
Query	7952	CCACATCAACTCCGTGTGGAAGAAGCCTTCTGGAAGACAGTGTAACACCAATAGACACTAC	8011
Sbjct	7964	CCACATCAACTCCGTGTGGAAGAAGCCTTCTGGAAGACAGTGTAACACCAATAGACACTAC	8023
Query	8012	CATCATGGCCCAAGAACGAGGTTTTCTCGCTTCAGCCTGAGAAGGGGGGTCTGAAGCCAGC	8071
Sbjct	8024	CATCATGGCCCAAGAACGAGGTTTTCTCGCTTCAGCCTGAGAAGGGGGGTCTGAAGCCAGC	8083
Query	8072	TCGTCTCATCGTGTGTTCCCGCACTGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGACGA	8131
Sbjct	8084	TCGTCTCATCGTGTGTTCCCGCACTGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGACGA	8143
Query	8132	CGTGGTTAGCAAGCTTCCCTCGGCCGTGATGGGAAGCTCTACGGATTCCAATACTACC	8191
Sbjct	8144	CGTGGTTAGCAAGCTTCCCTCGGCCGTGATGGGAAGCTCTACGGATTCCAATACTACC	8203
Query	8192	AGGACAGCGGGTGAATTCTCTGTCGAACGCTGGAAGTCCAAGAAGACCCCGATGGGGTT	8251
Sbjct	8204	AGGACAGCGGGTGAATTCTCTGTCGAACGCTGGAAGTCCAAGAAGACCCCGATGGGGTT	8263
Query	8252	CTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGA	8311
Sbjct	8264	CTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGA	8323
Query	8312	GGCAATTACCAATGTTGTGACCTGGACCCCCAAGCCCGGTGGCCATCAAGTCCCTCAC	8371
Sbjct	8324	GGCAATTACCAATGTTGTGACCTGGACCCCCAAGCCCGGTGGCCATCAAGTCCCTCAC	8383
Query	8372	TGAGAGGCTTTATGTTGGGGGCCCTTTACCAATTCAAGGGGGGAAAACTTGCGGCTACCG	8431
Sbjct	8384	TGAGAGGCTTTATGTTGGGGGCCCTTTACCAATTCAAGGGGGGAAAACTTGCGGCTACCG	8443
Query	8432	CAGGTGCCGCGCAGCGGCGTACTGACAACTAGCTGTGGTAACACCTTCACTTGTCTACAT	8491
Sbjct	8444	CAGGTGCCGCGCAGCGGCGTACTGACAACTAGCTGTGGTAACACCTTCACTTGTCTACAT	8503
Query	8492	CAAGGCCCGGGCAGCCTGTGAGCGCGCAGGGCTCCAGGACTGACCATAGCTCGTGTGTGG	8551
Sbjct	8504	CAAGGCCCGGGCAGCCTGTGAGCGCGCAGGGCTCCAGGACTGACCATAGCTCGTGTGTGG	8563
Query	8552	CGACGACTTAGTCTGTTATCTGTGAAAGTGGGGGGTCCAGAGGACGGGGCAGCTTAG	8611
Sbjct	8564	CGACGACTTAGTCTGTTATCTGTGAAAGTGGGGGGTCCAGAGGACGGGGCAGCTTAG	8623
Query	8612	AGCCTTCACGGAAGCTATGACCAAGTACTCCGCCCCCGGGGGACCCCAACACGAGA	8671
Sbjct	8624	AGCCTTCACGGAAGCTATGACCAAGTACTCCGCCCCCGGGGGACCCCAACACGAGA	8683
Query	8672	ATACGACTTGGAGCTTATAACATCATGCTCTCCAACGTGTGAGTCGCCACGACGCGCGC	8731

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Sbjct 8684 ATACGACTTGGAGCTTATAACATCATGCTCCCTCCACAGTGTGAGTCGCCACGACGAGCGCG 8743
Query 8732 TGGAAAGAGGGGTCTACTACCTTACCCGTGACCTACACACCCCTCGCGAGAGCCGCGTG 8791
Sbjct 8744 TGGAAAGAGGGGTCTACTACCTTACCCGTGACCTACACACCCCTCGCGAGAGCCGCGTG 8803
Query 8792 GGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCAACATAATCATGTTTGCCCC 8851
Sbjct 8804 GGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCAACATAATCATGTTTGCCCC 8863
Query 8852 CACACTGTGGGCGAGGATGATACTGATGACCCATTCTTTAGCGTCCCATAGCCAGGGA 8911
Sbjct 8864 CACACTGTGGGCGAGGATGATACTGATGACCCATTCTTTAGCGTCCCATAGCCAGGGA 8923
Query 8912 TCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCTACTCCATAGAACCCT 8971
Sbjct 8924 TCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCTACTCCATAGAACCCT 8983
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Sbjct 8984 GGATCTACCTCCAATCAATCAAAGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTA 9043
Query 9032 CTCTCCAGGTGAAATCAATAGGGTGGCCGATGCCTCAGAAAACCTGGGGTCCCGCCCTT 9091
Sbjct 9044 CTCTCCAGGTGAAATCAATAGGGTGGCCGATGCCTCAGAAAACCTGGGGTCCCGCCCTT 9103
Query 9092 GCGAGCTTGGAGACACCGGGCCGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAG 9151
Sbjct 9104 GCGAGCTTGGAGACACCGGGCCGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAG 9163
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Query 9272 GGGAGACATTATACAGCGTGTCTCATGCCCGGCCCGCTGGTCTGGTTTGGCTACT 9331
Sbjct 9284 GGGAGACATTATACAGCGTGTCTCATGCCCGGCCCGCTGGTCTGGTTTGGCTACT 9343
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Sbjct 9344 CCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAAC 9403
Query 9392 ACTCCGGCTCTTAAGCCATTTCCTG:tttttttttttttttttttttttttttttttt 9451
Sbjct 9404 ACTCCGGCTCTTAAGCCATTTCCTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 9463
Query 9452 tttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9511
Sbjct 9464 TTTTTTCTTTCCCTTCCCTCTTTTTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 9523
Query 9512 TCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGATGACTGCAGAGAGTG 9571
Sbjct 9524 TCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGATGACTGCAGAGAGTG 9583
Query 9572 CTGATACTGGCCCTCTCTGCAGATCATGT 9599
Sbjct 9584 CTGATACTGGCCCTCTCTGCAGATCATGT 9611

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Score = 1118 bits (605), Expect = 0.0
 Identities = 810/906 (89%), Gaps = 26/906 (2%)
 Strand=Plus/Plus

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Query 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAACACTG 60
Sbjct 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCTGTGAGGAACACTG 60
Query 61 TCTTCACGCAAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGCTGCAGCCTCCAGGA 120
Sbjct 61 TCTTCACGCAAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGCTGCAGCCTCCAGGAC 120

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Query 121  ccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Sbjct 121  CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180

Query 181  GACGACCGGGTCCCTTTCTTGGATAAACCCGCTCAATGCTGGAGATTGGGCGTGCCCC 240
Sbjct 181  GACGACCGGGTCCCTTTCTTGGATAAACCCGCTCAATGCTGGAGATTGGGCGTGCCCC 240

Query 241  GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGG 300
Sbjct 241  GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGG 300

Query 301  GTGCTTGCAGATGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360
Sbjct 301  GTGCTTGCAGATGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360

Query 361  CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGCTCAAGTTCCTCCGGTG 420
Sbjct 361  CTCAAAGAAAAACCAAAGAAACCAACCGTCGCCACAGGACGTTAAGTTTCCTCCGGCG 420

Query 421  GCGGTGAGATCGTTGGTGGAGTTTACTTGTGTCGCGCGAGGGGCCCTAGATTGGGTGTGC 480
Sbjct 421  GCGGCCAGATCGTTGGCGGAGTATACTTGTGTCGCGCGAGGGGCCCTAGATTGGGTGTGC 480

Query 481  GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCATATCCCCA 540
Sbjct 481  GCGCGACAAGGAAGACTTCGAGCGGTCCAGCCACGTGGAAGGCGCCAGGCCATCCCTA 540

Query 541  AGGCA-CGTCGGC-CCGAG-GGCAGGA-CCTGGGCTCAGCCCGGGTACCCCTTGGCCCCTC 596
Sbjct 541  AAG-ATCGGCG-CTCC-CTGGCAA-ATCTGGGGAACACAGGATACCCCTGGCCCCCTA 596

Query 597  TATGGCAATGAGGGT-TGCGGGTGGCGGGATGGCTCTGTCTCCCCGTGGCTCTCGGCC 655
Sbjct 597  TACGGGAATGAGGGACT-CGGCTGGGCAGGATGGCTCTGTCTCCCCGAGGTTCCCGTCC 655

Query 656  -TAGCT-GGGGCCCCACA-GACCCCGGCGTAGGTGCGCAATTTGGGTAAAGGTATCTGA 712
Sbjct 656  CT---CTTGGGGCCCCA-ATGACCCCGGCATAGGTGCGCAACGTGGGTAAAGGTATCTGA 712

Query 713  TACCCTTACGTGCGGCTTCGCCGACCTCATGGGGTACATACC-GCTCGTCGGCGCCCCCTC 771
Sbjct 713  TACCCTAACGTGCGGCTTTGCCGACCTCATGGGGTACATCCCTG-TCGTGGGCGCCCCGC 771

Query 772  TTGGAGCGC-TTGGCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAAC 830
Sbjct 772  TCGGCGGCGTC-GCCAGAGCTCTCGCGCATGGCGTGAGAGTCTTGAGGACGGGGTTAAT 830

Query 831  TATGCAACAGGGAACCTT-CCTGGTGTGTC-TTCTCTATCTTCCTT-CTGGCCCTGCTC 887
Sbjct 831  TTTGCAACAGGGAAC-TTACCGGTTGTCTCCTTT-TCTATCTTC-TTGTGGCCCTGCTG 887

Query 888  TCTTGC 893
Sbjct 888  TCCTGC 893

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>gb|EA372967.1| Sequence 3 from patent US 7314710
Length=8451

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.208e+04 bits (6542), Expect = 0.0
Identities = 6742/6837 (98%), Gaps = 20/6837 (0%)
Strand=Plus/Plus

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Query 2769  CTGGACACGAGGTGGCCGCGTCGTGTGGCGGCGTGTCTTGTGCGGGTTAATGGCGCTG 2828
Sbjct 1629  CTGGACACGAGGTGGCCGCGTCGTGTGGCGGCGTGTCTTGTGCGGGTTAATGGCGCTG 1688

Query 2829  ACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT 2888
Sbjct 1689  ACTCTGTGACCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT 1748

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Query	2889	CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTC	2948
Sbjct	1749	CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTC	1808
Query	2949	CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCGACCTGGTATTTGACATCACC	3008
Sbjct	1809	CGCGATGCCGTCATCTTACTCATGTGTGTGTAGTACACCGACCTGGTATTTGACATCACC	1868
Query	3009	AAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGTCTTAAAGTC	3068
Sbjct	1869	AAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGTCTTAAAGTC	1928
Query	3069	CCCTACTTTCGTGCGCGTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGC	3127
Sbjct	1929	CCCTACTTTCGTGCGCGTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATGA-C	1987
Query	3128	CGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT	3187
Sbjct	1988	CGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT	2047
Query	3188	GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGGCTGCGAGATCTGGCCGT	3247
Sbjct	2048	GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGGCTGCGAGATCTGGCCGT	2107
Query	3248	GGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	3307
Sbjct	2108	GGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	2167
Query	3308	TACCGCCGCTGCGGTGACATCATCAACGGCTTGGCCGCTCTTGCCCGTAGGGGCCAGGA	3367
Sbjct	2168	TACCGCCGCTGCGGTGACATCATCAACGGCTTGGCCGCTCTTGCCCGTAGGGGCCAGGA	2227
Query	3368	GATACTGCTTGGGCCAAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCAT	2427
Sbjct	2228	GATACTGCTTGGGCCAAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCAT	2287
Query	3428	CACGGCGTACGCCAGCAGACGAGAGGCTCTTAGGGTGTATAATCACCAGCCTGACTGG	3487
Sbjct	2288	CACGGCGTACGCCAGCAGACGAGAGGCTCTTAGGGTGTATAATCACCAGCCTGACTGG	2347
Query	3488	CCGGGACAAAAACCAAGTGGAGGGTGAAGGTCCAGATCGTGTCAACTGTACCCAAACCTT	3547
Sbjct	2348	CCGGGACAAAAACCAAGTGGAGGGTGAAGGTCCAGATCGTGTCAACTGTACCCAAACCTT	2407
Query	3548	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	3607
Sbjct	2408	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	2467
Query	3608	CATCGCATCACCAAGGGTCTGTCTATCCAGATGTATACCAATGTGGACCAAGACCTTGT	3667
Sbjct	2468	CATCGCATCACCAAGGGTCTGTCTATCCAGATGTATACCAATGTGGACCAAGACCTTGT	2527
Query	3668	GGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCCTGTACCTCGGGCTCCTCGGA	3727
Sbjct	2528	GGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCCTGTACCTCGGGCTCCTCGGA	2587
Query	3728	CCTTTACCTGGTCACGAGGCACGCCGATGTCTATCCCGTGGCGCGGCGAGGTGATAGCAG	3787
Sbjct	2588	CCTTTACCTGGTCACGAGGCACGCCGATGTCTATCCCGTGGCGCGGCGAGGTGATAGCAG	2647
Query	3788	GGGTAGCCTGCTTTTCGCCCGGCCCAATTCTACTTGAAGGCTCCTCGGGGGTCCGCT	3847
Sbjct	2648	GGGTAGCCTGCTTTTCGCCCGGCCCAATTCTACTTGAAGGCTCCTCGGGGGTCCGCT	2707
Query	3848	GTGTGCCCCGCGGGACACGCCGTGGGCTATTACGGGCGCGGTTGTCACCCGTGGAGT	3907
Sbjct	2708	GTGTGCCCCGCGGGACACGCCGTGGGCTATTACGGGCGCGGTTGTCACCCGTGGAGT	2767
Query	3908	GGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCATTAGGACAAACATGAGATCCCCGGT	3967
Sbjct	2768	GGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCATTAGGACAAACATGAGATCCCCGGT	2827
Query	3968	GTTACGCGAACCTCTCTCCACCAGCAGTGGCCAGAGCTTCCAGGTGGGCCACCTGCA	4027
Sbjct	2828	GTTACGCGAACCTCTCTCCACCAGCAGTGGCCAGAGCTTCCAGGTGGGCCACCTGCA	2887

Query	4028	TGCTCCACCGGACGCGTAAGAGCACCAAGGTCCCGGCTGCGTACGACGCCAGGGCTA	4087
Sbjct	2888	TGCTCCACCGGACGCGTAAGAGCACCAAGGTCCCGGCTGCGTACGACGCCAGGGCTA	2947
Query	4088	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	4147
Sbjct	2948	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	3007
Query	4148	CAAGGCCCATGGGGTTGATCCTAATAATCAGGACCGGGTGAGAACAAATTACCACTGGCAG	4207
Sbjct	3008	CAAGGCCCATGGGGTCGATCCTAATAATCAGGACCGGGTGAGAACAAATTACCACTGGCAG	3067
Query	4208	CCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGC	4267
Sbjct	3068	CCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGC	3127
Query	4268	TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT	4327
Sbjct	3128	TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT	3187
Query	4328	CGGCACTGTCTTGTACCAAGCAGAGACTCGCGGGGCGAGACTGGTGTGCTCGCCACTGC	4387
Sbjct	3188	CGGCACTGTCTTGTACCAAGCAGAGACTCGCGGGGCGAGATTGGTGTGCTCGCCACTGC	3247
Query	4388	TACCCCTCCGGGCTCCGTCCTGTGTGCCATCCTAACATCGAGGAGTTGCTCTGTCCAC	4447
Sbjct	3248	TACCCCTCCGGGCTCCGTCCTGTGTGCCATCCTAACATCGAGGAGTTGCTCTGTCCAC	3307
Query	4448	CACCGGAGAGATCCCCCTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGAA	4506
Sbjct	3308	CACCGGAGAGATCCC-TTTCACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGAA	3366
Query	4507	GACATCTCATCTTCTGCGCACTCAAAGAAGAAGTGCAGCAGCTCGCCGCGAAGCTGGTCG	4566
Sbjct	3367	GACATCTCATCTTCTGCGCACTCAAAGAAGAAGTGCAGCAGCTCGCCGCGAAGCTGGTCG	3426
Query	4567	CATTGGGCGATCAATGCCGTGGCCTACTACCGGGCTTGTGACGTGCTGTATCCCGACCA	4626
Sbjct	3427	CATTGGGCGATCAATGCCGTGGCCTACTACCGGGACTTGTGACGTGCTGTATCCCGACCA	3486
Query	4627	CGGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	4686
Sbjct	3487	CGGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	3546
Query	4687	ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTGCATTTACGCTTGACCTTA	4746
Sbjct	3547	ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTGCATTTACGCTTGACCTTA	3606
Query	4747	CCTTTACCATTTAGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGG	4806
Sbjct	3607	CCTTTACCATTTAGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAGCGCCGGG	3666
Query	4807	GCAGGACTGGCAGGGGGAAGCAGGCATCTATAGATTTGTGGACCCGGGGAGCGCCCT	4866
Sbjct	3667	GCAGGACTGGCAGGGGGAAGCAGGCATCTATAGATTTGTGGACCCGGGGAGCGCCCT	3726
Query	4867	CCGGCATGTTGCACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	4926
Sbjct	3727	CCGGCATGTTGCACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	3786
Query	4927	AGCTACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	4986
Sbjct	3787	AGCTACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	3846
Query	4987	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTACGGGCTCACTCATATAG	5046
Sbjct	3847	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTACGGGCTCACTCATATAG	3906
Query	5047	ATGCCCACTTTTTATCCAGACAAAGCAGAGTGGGAGAACTTCTTACCTGGTAGCGT	5106
Sbjct	3907	ATGCCCACTTTCTATCCAGACAAAGCAGAGTGGGAGAACTTCTTACCTGGTAGCGT	3966
Query	5107	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCATGTGGA	5166
Sbjct	3967	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCATGTGGA	4026

Query	5167	AGTGTTTGATCCGCCCTTAAACCCACCCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	5226
Sbjct	4027	AGTGTTTGATCCGCCCTTAAACCCACCCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	4086
Query	5227	CGCGTGTTCAGAATGAAGTCACCCCTGACGCACCCAATCACCAAATACATCATGACATGCA	5286
Sbjct	4087	CGCGTGTTCAGAATGAAGTCACCCCTGACGCACCCAATCACCAAATACATCATGACATGCA	4146
Query	5287	TGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTGGCGCGCTCTGGCTG	5346
Sbjct	4147	TGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTGGCGCGCTCTGGCTG	4206
Query	5347	CTCTGGCCGCGTATTGCCGTGCAACAGGCTGCGTGGTCATAGTGGCAGGATCGTCTTGT	5406
Sbjct	4207	CTCTGGCCGCGTATTGCCGTGCAACAGGCTGCGTGGTCATAGTGGCAGGATCGTCTTGT	4266
Query	5407	CCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTCGATGAGATGG	5466
Sbjct	4267	CCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTCGATGAGATGG	4326
Query	5467	AAGAGTGTCTCTAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	5526
Sbjct	4327	AAGAGTGTCTCTAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	4386
Query	5527	AGCAGAAGGCCCTCGGCCCTCTGCGAGACCGCTCCCGCCATGCGAGGTTATCACCCCTG	5586
Sbjct	4387	AGCAGAAGGCCCTCGGCCCTCTGCGAGACCGCTCCCGCCATGCGAGGTTATCACCCCTG	4446
Query	5587	CTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	5646
Sbjct	4447	CTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	4506
Query	5647	TCAGTGGGATACAACTTTGGCGGGCTGTCAACGCTGCTCGGTAAACCCCGCATTTGCTT	5706
Sbjct	4507	TCAGTGGGATACAACTTTGGCGGGCTGTCAACGCTGCTCGGTAAACCCCGCATTTGCTT	4566
Query	5707	CATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCACTGGCCAAACCCCTCTCT	5766
Sbjct	4567	CATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCACTGGCCAAACCCCTCTCT	4626
Query	5767	TCAACATATTggggggTGGGTGGCTGCCAGCTCGCCGCCCGGTGCCGCTACTGCCCT	5826
Sbjct	4627	TCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGGTGCCGCTACTGCCCT	4686
Query	5827	TTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGACTGGGGAAAGTCTCTG	5886
Sbjct	4687	TTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGACTGGGGAAAGTCTCTG	4746
Query	5887	TGGACATTCTTGAGGGATATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA	5946
Sbjct	4747	TGGACATTCTTGAGGGATATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA	4806
Query	5947	TGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCTCTCGC	6006
Sbjct	4807	TGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCTCTCGC	4866
Query	6007	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACGTGCCCGGCACGTTGGCCCGG	6066
Sbjct	4867	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACGTGCCCGGCACGTTGGCCCGG	4926
Query	6067	GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCGGGGGAACCATG	6126
Sbjct	4927	GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCGGGGGAACCATG	4986
Query	6127	TTTCCCCCAGCACTACGTGCGCGAGAGCGATGACGCCGCCGCGTCACTGCCATACTCA	6186
Sbjct	4987	TTTCCCCCAGCACTACGTGCGCGAGAGCGATGACGCCGCCGCGTCACTGCCATACTCA	5046
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Sbjct	5047	GCAGCCTCAGTGAACCCAGCTCCTGAGGCGACTACATCAGTGGATAAGCTCGGAGTGTA	5106
Query	6247	CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	6306
Sbjct	5107	CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	5166

Query	6307	GCGACTTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCTTTTG	6366
Sbjct	5167	GCGACTTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCTTTTG	5226
Query	6367	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGCGATTATGCACACTCGCT	6426
Sbjct	5227	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGCGATTATGCACACTCGCT	5286
Query	6427	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	6486
Sbjct	5287	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	5346
Query	6487	CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCATTAACGCCCTACACCACGGGCC	6546
Sbjct	5347	CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCATTAACGCCCTACACCACGGGCC	5406
Query	6547	CCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGG	6606
Sbjct	5407	CCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGG	5466
Query	6607	AATACGTGGAGATAAAGCGGGTGGGGGACTTCACCTACGTATCGGGTATGACTACTGACA	6666
Sbjct	5467	AATACGTGGAGATAAAGCGGGTGGGGGACTTCACCTACGTATCGGGTATGACTACTGACA	5526
Query	6667	ATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAAITGGACGGGGTGC	6726
Sbjct	5527	ATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAAITGGACGGGGTGC	5586
Query	6727	GCCTACACAGGTTTGCGCCCTTTCGAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAG	6786
Sbjct	5587	GCCTACATAGGTTTGCGCCCTTTCGAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAG	5646
Query	6787	TAGGACTCCACGAGTACCCGGTGGGGTTCGAATTACCTTCGCGAGCCCGAACCGGACGTAG	6846
Sbjct	5647	TAGGACTCCACGAGTACCCGGTGGGGTTCGAATTACCTTCGCGAGCCCGAACCGGACGTAG	5706
Query	6847	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCGGGAGAA	6906
Sbjct	5707	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCGGGAGAA	5766
Query	6907	GGTGGCGAGAGGGTACACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTC	6966
Sbjct	5767	GGTGGCGAGAGGGTACACCCCTTCTATGGCCAGCTCCTCGGCGAGCAGCTGTCCGCTC	5826
Query	6967	CATCTCTCAAGGCAACTTGCACCGCCAAACATGACTCCCTTGACGCCGAGCTCATAGAGG	7026
Sbjct	5827	CATCTCTCAAGGCAACTTGCACCGCCAAACATGACTCCCTTGACGCCGAGCTCATAGAGG	5886
Query	7027	CTAACCCTCTGTGGAGGCGAGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA	7086
Sbjct	5887	CTAACCCTCTGTGGAGGCGAGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA	5946
Query	7087	AAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTC	7146
Sbjct	5947	AAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTC	6006
Query	7147	CCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCGCTGGG	7206
Sbjct	6007	CCGTACCCGCGAGAAATTCGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCGCTGGG	6066
Query	7207	CGCGCGCGGACTACAACCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACAC	7266
Sbjct	6067	CGCGCGCGGACTACAACCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACAC	6126
Query	7267	CTGTGGTCCATGCTGCGCGCTACCACCTCCACGGTCCCTCTCTGTGCTCCGCTCGGA	7326
Sbjct	6127	CTGTGGTCCATGCTGCGCGCTACCACCTCCACGGTCCCTCTCTGTGCTCCGCTCGGA	6186
Query	7327	AAAAGCGTACGGTGGTCTCACCAGATCAACCTATCTACTGCTTGGCCGAGCTTGCCA	7386
Sbjct	6187	AAAAGCGTACGGTGGTCTCACCAGATCAACCTATCTACTGCTTGGCCGAGCTTGCCA	6246
Query	7387	CCAAAAGTTTTGGCAGCTCCTCAACTCCGGCATTACGGGCGCAATACGACAACATCCT	7446
Sbjct	6247	CCAAAAGTTTTGGCAGCTCCTCAACTCCGGCATTACGGGCGCAATATGACACATCCT	6306

Query	7447	CTGAGCCCGCCCTTCTGGCTG	cccccccGACTCCGACGTTAGTCTTATCTTCATGc	7506
Sbjct	6307	CTGAGCCCGCCCTTCTGGCTG	CCCCCCCGACTCCGACGTTAGTCTTATCTTCATGC	6366
Query	7507	ccccccTGGAGGGGAGCCTGGGGATCCGGATCTCAGCAGCGGTCATGGTCAGCGGTCA		7566
Sbjct	6367	CCCCCTGGAGGGGAGCCTGGGGATCCGGATTTCAGCAGCGGTCATGGTCAGCGGTCA		6426
Query	7567	GTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTTGACAGGGC		7626
Sbjct	6427	GTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATACCTTGACAGGGC		6486
Query	7627	CACCTCGTCACCCCGTGGCTGCGGAAGAACAATAATGCCCATCAACGCACCTGAGCAACT		7686
Sbjct	6487	CACCTCGTCACCCCGTGGCTGCGGAAGAACAATAATGCCCATCAACGCACCTGAGCAACT		6546
Query	7687	CGTGTCTACGCCATCAACAATCTGGTGATATTCACCACCTTCACGAGTGCTTGCCAAAGGC		7746
Sbjct	6547	CGTGTCTACGCCATCAACAATCTGGTGATATTCACCACCTTCACGAGTGCTTGCCAAAGGC		6606
Query	7747	AGAAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACAGGACGTGCTCA		7806
Sbjct	6607	AGAAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACAGGACGTGCTCA		6666
Query	7807	AGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTT		7866
Sbjct	6667	AGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTT		6726
Query	7867	GCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCC		7926
Sbjct	6727	GCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCC		6786
Query	7927	GTGGCCATGCCAGAAAGGCCGTAGGCCACATCAACTCCGTGTGGAAGACCTTCTGGAAG		7986
Sbjct	6787	GTGGCCATGCCAGAAAGGCCGTAGGCCACATCAACTCCGTGTGGAAGACCTTCTGGAAG		6846
Query	7987	ACAGTGTAAACCAATAGACACTACCATCATGGCCAAGAAGCAGGTTTCTGCGTTACGC		8046
Sbjct	6847	ACAGTGTAAACCAATAGACACTATCATCATGGCCAAGAAGCAGGTTTCTGCGTTACGC		6906
Query	8047	CTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTCCCGACCTGGGCGTGCGCG		8106
Sbjct	6907	CTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTCCCGACCTGGGCGTGCGCG		6966
Query	8107	TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCGCTGGCCGTGATGGGAA		8166
Sbjct	6967	TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCGCTGGCCGTGATGGGAA		7026
Query	8167	GCTCCTACGGAATCCAAATACTACACGAGCAGCGGGTTGAATTCCTGTCAGCGGTGGA		8226
Sbjct	7027	GCTCCTACGGAATCCAAATACTACACGAGCAGCGGGTTGAATTCCTGTCAGCGGTGGA		7086
Query	8227	AGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTGACTCCACAGTCA		8286
Sbjct	7087	AGTCCAAGAAGACCCCGATGGGGTTCCCGTATGATACCCGCTGTTTGTGACTCCACAGTCA		7146
Query	8287	CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG		8346
Sbjct	7147	CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG		7206
Query	8347	CCCGCTGGGCCATCAAGTCCCTCACTGAGAGGCTTTAATGTTGGGGGCCCTCTTACCAATT		8406
Sbjct	7207	CCCGCTGGGCCATCAAGTCCCTCACTGAGAGGCTTTAATGTTGGGGGCCCTCTTACCAATT		7266
Query	8407	CAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCAGCGGCTACTGACAACTAGCT		8466
Sbjct	7267	CAAGGGGGGAAAACCTGCGGCTATCGCAGGTGCCGCGCAGCGGCTACTGACAACTAGCT		7326
Query	8467	GTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCCGCGAGGCTCC		8526
Sbjct	7327	GTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCCGCGAGGCTCC		7386
Query	8527	AGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGGGGGG		8586
Sbjct	7387	AGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGGGGGG		7446

Query	8587	TCCAGGAGGACGCGGCGAGCCTTGAGAGCCTTACGAGGAGGTATGACCAGGTACTCCG	8646
Sbjct	7447	TCCAGGAGGACGCGGCGAGCCTTGAGAGCCTTACGAGGAGGTATGACCAGGTACTCCG	7506
Query	8647	ccccccggggccccccACAACAGAATACGACTTGGAGCTTATAACATCATGCTCTCCA	8706
Sbjct	7507	CCCCGGGGACCCCCACAACAGAATACGACTTGGAGCTTATAACATCATGCTCTCCA	7566
Query	8707	ACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTA	8766
Sbjct	7567	ACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTA	7626
Query	8767	CAACCCCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACTCCAGTCAATTCTCTGGC	8826
Sbjct	7627	CAACCCCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACTCCAGTCAATTCTCTGGC	7686
Query	8827	TAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATATGATGACCATT	8886
Sbjct	7687	TAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATATGATGACCATT	7746
Query	8887	TCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACATGTGAGATCAGC	8946
Sbjct	7747	TCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACATGTGAGATCAGC	7806
Query	8947	GAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCC	9006
Sbjct	7807	GAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCC	7866
Query	9007	TCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAATCAATAGGGTGGCCGCATGCC	9066
Sbjct	7867	TCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAATCAATAGGGTGGCCGCATGCC	7926
Query	9067	TCAGAAACTTTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCGAGCGTCCGCG	9126
Sbjct	7927	TCAGAAACTTTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCGAGCGTCCGCG	7986
Query	9127	CTAGGCTTCTGTCCAGGAGGCGAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGG	9186
Sbjct	7987	CTAGGCTTCTGTCCAGGAGGCGAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGG	8046
Query	9187	CAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGGCTGGACTTGTCCG	9246
Sbjct	8047	CAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGGCTGGACTTGTCCG	8106
Query	9247	GTTGGTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGCTCATGCCCGGC	9306
Sbjct	8107	GTTGGTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGCTCATGCCCGGC	8166
Query	9307	CCCGTGGTTCTGGTTTGGCTACTCTCTGCTCGCTGACGGGGTAGGCATCTACCTCCTCC	9366
Sbjct	8167	CCCGTGGTTCTGGTTTGGCTACTCTCTGCTCGCTGACGGGGTAGGCATCTACCTCCTCC	8226
Query	9367	CCAACCGATGA-AGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTT-CCTG	9424
Sbjct	8227	CCAACCGGTGACA--TT----TCC-CTTTTTTTTTTTTTTTTTTTTTTCCC-TTTTTT	8278
Query	9425	tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt	9484
Sbjct	8279	TTTTTTTTTTTTTTTTTTTTTT-TTTTTTTTTTCTCT--TT-CCTCTTTTTCCTCTTC	8334
Query	9485	tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt	9542
Sbjct	8335	TCCTCCTCCCTCTTTAATGTTGGCTCCATCTTAGCCCTTAGTCACGGCTAGCTGTGAAAG	8394
Query	9543	GTCGCTGAGCGCATGACTGCGAGAGTGCTGATAGTGCCCTCTCTGCAGATCATGT	9599
Sbjct	8395	GTCGCTGAGCGCATGACTGCGAGAGTGCTGATAGTGCCCTCTCTGCAGATCATGT	8451

Score = 1062 bits (575), Expect = 0.0
 Identities = 584/588 (99%), Gaps = 2/588 (0%)
 Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGCACTCCACCATGA-ATCACTCCCCGTGAGGAACACTACT	59
Sbjct	1	GCCAGCCCCCTGATGGGGGCGCACTCCACCAT-AGATCACTCCCCGTGAGGAACACTACT	59

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Query 60      GTCITCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA 119
Sbjct 60      GTCITCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA 119

Query 120     cccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA 179
Sbjct 120     CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA 179

Query 180     GGACGACCGGGTCTCTTTCTTGGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC 239
Sbjct 180     GGACGACCGGGTCTCTTTCTTGGATAAAACCGCTCAATGCCTGGAGATTGGGCGTGCCCC 239

Query 240     CGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGGTACTGCTGATAG 299
Sbjct 240     CGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCCTTGGTACTGCTGATAG 299

Query 300     GGTGCTTGCAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA 359
Sbjct 300     GGTGCTTGCAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA 359

Query 360     CCTCAAGAAAAAACAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCTCCGGGT 419
Sbjct 360     CCTCAAGAAAAAACAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCTCCGGGT 419

Query 420     GCGCGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTG 479
Sbjct 420     GCGCGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTG 479

Query 480     CGCGGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTAGCCTATCCCC 539
Sbjct 480     CGCGGACGAGGAAGACTTCCGAGCGGTGCAACCTCGTGTAGACGTAGCCTATCCCC 539

Query 540     AAGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCT 587
Sbjct 540     AAGGCACGTGCGGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCT 587

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>dbj|DB070078.1| PROCESS FOR THE REPLICATION OF THE HEPATITIS C VIRUS
Length=8451

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.208e+04 bits (6542), Expect = 0.0
Identities = 6742/6837 (98%), Gaps = 20/6837 (0%)
Strand=Plus/Plus

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Query 2769    CTGGACACGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGCGGTTAATGGCGCTG 2828
Sbjct 1629    CTGGACACGAGGTGGCCGCTCGTGTGGCGCGTGTGTTCTTGTGCGGTTAATGGCGCTG 1688

Query 2829    ACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT 2888
Sbjct 1689    ACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT 1748

Query 2889    CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGTCggggggggg 2948
Sbjct 1749    CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCCCTCAACGTCGGGGGGGG 1808

Query 2949    CGCGATGCGCGTCACTCTTACTCATGTGTGTAGTACACCGACCTTGGTATTGTGACATCACC 3008
Sbjct 1809    CGCGATGCGCGTCACTCTTACTCATGTGTGTGTAGTACACCGACTCTGGTATTGTGACATCACC 1868

Query 3009    AAATACTFCTTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCAGTTTGCTTAAAGTC 3068
Sbjct 1869    AAATACTFCTTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCAGTTTGCTTAAAGTC 1928

Query 3069    CCTACTTCTGTGCGCGTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGC 3127
Sbjct 1929    CCTACTTCTGTGCGCGTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATGA-C 1987

Query 3128    CGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGGCGCTTACTGCGACCATATGT 3187
Sbjct 1988    CGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGGCGCTTACTGCGACCATATGT 2047

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Query	3188	GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAGATCTGGCCGT	3247
Sbjct	2048	GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAGATCTGGCCGT	2107
Query	3248	GGCTGTGGAAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCAGTGGGGGGCAGA	3307
Sbjct	2108	GGCTGTGGAAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCAGTGGGGGGCAGA	2167
Query	3308	TACCGCCCGCTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCTAGGGGCCAGGA	3367
Sbjct	2168	TACCGCCCGCTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCTAGGGGCCAGGA	2227
Query	3368	GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTGTGCTGGCGCCCAT	3427
Sbjct	2228	GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTGTGCTGGCGCCCAT	2287
Query	3428	CACGGCGTACGCCACGACGAGAGAGGCCCTCTAGGGTGTATAATCACCAGCCTGACTGG	3487
Sbjct	2288	CACGGCGTACGCCACGACGAGAGAGGCCCTCTAGGGTGTATAATCACCAGCCTGACTGG	2347
Query	3488	CCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCAAAACCTT	3547
Sbjct	2348	CCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCAAAACCTT	2407
Query	3548	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	3607
Sbjct	2408	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	2467
Query	3608	CATCGCATACCCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCAAGACCTTGT	3667
Sbjct	2468	CATCGCATACCCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCAAGACCTTGT	2527
Query	3668	GGGCTGGCCGCTCCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGCTCCTCGGA	3727
Sbjct	2528	GGGCTGGCCGCTCCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGCTCCTCGGA	2587
Query	3728	CCTTTACCTGGTCACGAGGCACGCCGATGTCTATCCCGTGCGCCGGCGAGGTGATAGCAG	3787
Sbjct	2588	CCTTTACCTGGTCACGAGGCACGCCGATGTCTATCCCGTGCGCCGGCGAGGTGATAGCAG	2647
Query	3788	GGGTAGCCTGCTTTTCGCCCGGGCCATTTCCTACTTGAAAGGCTCCTCGGGGGTCCGCT	3847
Sbjct	2648	GGGTAGCCTGCTTTTCGCCCGGGCCATTTCCTACTTGAAAGGCTCCTCGGGGGTCCGCT	2707
Query	3848	GTTGTGCCCCCGGGGACACGCCGTGGGCCATTACAGGGCCGCGGTGTGCACCCGTGGAGT	3907
Sbjct	2708	GTTGTGCCCCCGGGGACACGCCGTGGGCCATTACAGGGCCGCGGTGTGCACCCGTGGAGT	2767
Query	3908	GGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGACAAACCTAGAGATCCCCGT	3967
Sbjct	2768	GGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGACAAACCTAGAGATCCCCGT	2827
Query	3968	GTTACGGGCAACTCCTCTCCACCAGCAGTGCCTCCAGGCTTCCAGGTGGGCCACCTGCA	4027
Sbjct	2828	GTTACGGGCAACTCCTCTCCACCAGCAGTGCCTCCAGGCTTCCAGGTGGGCCACCTGCA	2887
Query	4028	TGCTCCCACCGGAGCGGTAAAGAGACCAAGGTCCCGGCTGCGTACGACGCCAGGGCTA	4087
Sbjct	2888	TGCTCCCACCGGAGCGGTAAAGAGACCAAGGTCCCGGCTGCGTACGACGCCAGGGCTA	2947
Query	4088	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	4147
Sbjct	2948	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	3007
Query	4148	CAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATACCACTGGCAG	4207
Sbjct	3008	CAAGGCCCATGGGGTGCATCCTAATATCAGGACCGGGGTGAGAACAAATACCACTGGCAG	3067
Query	4208	CCCCATCAGTACTCCACCTACGGCAAGTTCCCTTGCCGACGGCGGGTGCTCAGGAGGTGC	4267
Sbjct	3068	CCCCATCAGTACTCCACCTACGGCAAGTTCCCTTGCCGACGGCGGGTGCTCAGGAGGTGC	3127
Query	4268	TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT	4327
Sbjct	3128	TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT	3187

Query	4328	CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCAGAGCTGGTTGTGCTCGCCACTGC	4387
Sbjct	3188	CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCAGATTGGTTGTGCTCGCCACTGC	3247
Query	4388	TACCCCTCCGGGTCGCTCACTGTGTCCCATCTTAACATCGAGGAGTTGCTCTGTCCAC	4447
Sbjct	3248	TACCCCTCCGGGTCGCTCACTGTGTCCCATCTTAACATCGAGGAGTTGCTCTGTCCAC	3307
Query	4448	CACCGGAGAGATCCCCCTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAA	4506
Sbjct	3308	CACCGGAGAGATCCC-TTCTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAA	3366
Query	4507	GACATCTCATCTTCTGCCACTCAAAGAAGATGCGACGAGCTCGCCGCGAAGCTGGTGC	4566
Sbjct	3367	GACATCTCATCTTCTGTCACTCAAAGAAGATGCGACGAGCTCGCCGCGAAGCTGGTGC	3426
Query	4567	CATTGGGCATCAATGCCGTGGCTACTACCGCGGTCTTGACGTGCTGTCACTCCCGACCA	4626
Sbjct	3427	CATTGGGCATCAATGCCGTGGCTACTACCGCGGACTTGACGTGCTGTCACTCCCGACCA	3486
Query	4627	GCGGCGATGTTGTGCTGTCGACCGGATGCTCTCATGACTGGCTTACCGGCGACTTCG	4686
Sbjct	3487	GCGGCGATGTTGTGCTGTCGACCGGATGCTCTCATGACTGGCTTACCGGCGACTTCG	3546
Query	4687	ACTCTGTGATAGACTGCAACACGTGTGCTCACTCAGACAGTCGATTCAGCCTTGACCCTA	4746
Sbjct	3547	ACTCTGTGATAGACTGCAACACGTGTGCTCACTCAGACAGTCGATTCAGCCTTGACCCTA	3606
Query	4747	CCTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCGG	4806
Sbjct	3607	CCTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAGCGCCGG	3666
Query	4807	GCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCAGGGGAGCGCCCT	4866
Sbjct	3667	GCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTGTGGCACCAGGGGAGCGCCCT	3726
Query	4867	CCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGTATGACGCGGGCTGTGCTTGGTATG	4926
Sbjct	3727	CCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGTATGACGCGGGCTGTGCTTGGTATG	3786
Query	4927	AGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	4986
Sbjct	3787	AGCTCATGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	3846
Query	4987	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCACTCATATAG	5046
Sbjct	3847	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTACGGGCTCACTCATATAG	3906
Query	5047	ATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAACTTCTTACCTGGTAGCGT	5106
Sbjct	3907	ATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAACTTCTTACCTGGTAGCGT	3966
Query	5107	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGATGTGGA	5166
Sbjct	3967	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGATGTGGA	4026
Query	5167	AGTGTTTGATCCGCCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	5226
Sbjct	4027	AGTGTTTGATCCGCCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	4086
Query	5227	GGCTGTTCAGAAATGAAGTACCCCTGACGCACCCAATACCAAAATACATCATGACATGCA	5286
Sbjct	4087	GGCTGTTCAGAAATGAAGTACCCCTGACGCACCCAATACCAAAATACATCATGACATGCA	4146
Query	5287	TGTCGGCCGACCTGGAGGTGCTCAGCAGCACTGGGTGCTCGTGGCGGCTCTGGCTG	5346
Sbjct	4147	TGTCGGCCGACCTGGAGGTGCTCAGCAGCACTGGGTGCTCGTGGCGGCTCTGGCTG	4206
Query	5347	CTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCTAGTGGGACGAGATCGTCTGT	5406
Sbjct	4207	CTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCTAGTGGGACGAGATCGTCTGT	4266
Query	5407	CCGGGAAGCCGGCAATTATACCTGACAGGGAGGTCTCTACAGGAGTTTCGATGAGATGG	5466
Sbjct	4267	CCGGGAAGCCGGCAATTATACCTGACAGGGAGGTCTCTACAGGAGTTTCGATGAGATGG	4326

Query	5467	AAGAGTGTCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	5526
Sbjct	4327	AAGAGTGTCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	4386
Query	5527	AGCAGAAGGCCCTCGGCCCTCTGAGACCGCGTCCCGGCATGAGAGGTTATACCCCTTG	5586
Sbjct	4387	AGCAGAAGGCCCTCGGCCCTCTGAGACCGCGTCCCGGCATGAGAGGTTATACCCCTTG	4446
Query	5587	CTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	5646
Sbjct	4447	CTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	4506
Query	5647	TCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	5706
Sbjct	4507	TCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	4566
Query	5707	CATTGATGGCTTTTACAGCTGCCGTACACGCCCACTAACCACTGGCCAAACCTCTCTCT	5766
Sbjct	4567	CATTGATGGCTTTTACAGCTGCCGTACACGCCCACTAACCACTGGCCAAACCTCTCTCT	4626
Query	5767	TCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGTGGCGCTACTGGCT	5826
Sbjct	4627	TCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGTGGCGCTACTGGCT	4686
Query	5827	TTGTGGGTGCTGGCCTAGCTGGCGCCGCATCGGCAGCGTTGGACTGGGGAAGTCTCTCG	5886
Sbjct	4687	TTGTGGGTGCTGGCCTAGCTGGCGCCGCATCGGCAGCGTTGGACTGGGGAAGTCTCTCG	4746
Query	5887	TGGACATTCTTGAGGGTATGGCGCGGGCTGGCGGGAGCTCTTGAGCATTCAAGATCA	5946
Sbjct	4747	TGGACATTCTTGAGGGTATGGCGCGGGCTGGCGGGAGCTCTTGAGCATTCAAGATCA	4806
Query	5947	TGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGGCATCTCTCTCG	6006
Sbjct	4807	TGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGGCATCTCTCTCG	4866
Query	6007	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGACAGTTGGCCCGG	6066
Sbjct	4867	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGACAGTTGGCCCGG	4926
Query	6067	GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGGAACCATG	6126
Sbjct	4927	GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGGAACCATG	4986
Query	6127	TTTCCCCCAGCAGCTACGTGCCGGAGAGCGATGCAGCCGCCCGCTCACTGCCATACTCA	6186
Sbjct	4987	TTTCCCCCAGCAGCTACGTGCCGGAGAGCGATGCAGCCGCCCGCTCACTGCCATACTCA	5046
Query	6187	GCAGCCTCAGTGTAAACCCAGCTCCTGAGCGACTGCATCAGTGGATAAGCTCGGAGTGTGA	6246
Sbjct	5047	GCAGCCTCAGTGTAAACCCAGCTCCTGAGCGACTGCATCAGTGGATAAGCTCGGAGTGTGA	5106
Query	6247	CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	6306
Sbjct	5107	CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	5166
Query	6307	GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCTTTG	6366
Sbjct	5167	GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCTTTG	5226
Query	6367	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCAGGAGAGCGGCATTATGCACACTCGCT	6426
Sbjct	5227	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCAGGAGAGCGGCATTATGCACACTCGCT	5286
Query	6427	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGAGCATGAGGATCGTCGGTC	6486
Sbjct	5287	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGAGCATGAGGATCGTCGGTC	5346
Query	6487	CTAGGACCTGCGAGAACATGTGGAGTGGGACGTTCCCATTAACGCCCTACACCAACGGGC	6546
Sbjct	5347	CTAGGACCTGCGAGAACATGTGGAGTGGGACGTTCCCATTAACGCCCTACACCAACGGGC	5406
Query	6547	CCGTGACTCCCCCTCTGCGCCGAACATAAGTTCCGCGTGTGGAGGGTGTCTGCAGAGG	6606
Sbjct	5407	CCGTGACTCCCCCTCTGCGCCGAACATAAGTTCCGCGTGTGGAGGGTGTCTGCAGAGG	5466

Query	6607	AATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	6666
Sbjct	5467	AATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	5526
Query	6667	ATCTTAAATGCCCGTGCCAGATCCCATCGCCGGAATTTTTCACAGAAITGGACGGGGTGC	6726
Sbjct	5527	ATCTTAAATGCCCGTGCCAGATCCCATCGCCGGAATTTTTCACAGAAITGGACGGGGTGC	5586
Query	6727	GCCTACACAGGTTTGCGCCCTTTCGAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAG	6786
Sbjct	5587	GCCTACATAGGTTTGCGCCCTTTCGAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAG	5646
Query	6787	TAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCGGAACCGGACGTAG	6846
Sbjct	5647	TAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCGGAACCGGACGTAG	5706
Query	6847	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCGGGAGAA	6906
Sbjct	5707	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGCGGGAGAA	5766
Query	6907	GGTGGCGAGAGGGTACCCTCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCGCTC	6966
Sbjct	5767	GGTGGCGAGAGGGTACCCTCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCGCTC	5826
Query	6967	CATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCATAGAGG	7026
Sbjct	5827	CATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCATAGAGG	5886
Query	7027	CTAACCTCCTGTGGAGGAGGAGATGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA	7086
Sbjct	5887	CTAACCTCCTGTGGAGGAGGAGATGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA	5946
Query	7087	AAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGAGGCT	7146
Sbjct	5947	AAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGAGGCT	6006
Query	7147	CCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCGTCTGGG	7206
Sbjct	6007	CCGTACCCGCAGAAATTCGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCGTCTGGG	6066
Query	7207	CGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCC	7266
Sbjct	6067	CGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCC	6126
Query	7267	CTGTGGTCCATGGCTGCCGCTACCACCTCCACGGTCCCTCTCTGTGCTCCGCTTCGGA	7326
Sbjct	6127	CTGTGGTCCATGGCTGCCGCTACCACCTCCACGGTCCCTCTCTGTGCTCCGCTTCGGA	6186
Query	7327	AAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAGCTTGCCA	7386
Sbjct	6187	AAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAGCTTGCCA	6246
Query	7387	CCAAAAGTTTGGCAGCTCCTCAACTTCCGGCAATTCGGGCGACAATACGACAACATCCT	7446
Sbjct	6247	CCAAAAGTTTGGCAGCTCCTCAACTTCCGGCAATTCGGGCGACAATATGACAACATCCT	6306
Query	7447	CTGAGCCCGCCCTTCTGGCTGAGGAGGAGCTCCGACGTTGAGTCTTATCTTCCATGC	7506
Sbjct	6307	CTGAGCCCGCCCTTCTGGCTGAGGAGGAGCTCCGACGTTGAGTCTTATCTTCCATGC	6366
Query	7507	GGGGGTTGGAGGGGAGCCTGGGGATCCGGATCTCAGCAGCGGGTCATGGTCGACGGTCA	7566
Sbjct	6367	CCCCCTGGAGGGGAGCCTGGGGATCCGGATTTTACGACGAGGGTCATGGTCGACGGTCA	6426
Query	7567	GTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTCTATTCTTCCATGC	7626
Sbjct	6427	GTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTCTATTCTTCCATGC	6486
Query	7627	CACCTCGTCACCCCGTGCCTGCGGAAGAACAAAAATGCCCATCAACGCATGAGCAACT	7686
Sbjct	6487	CACCTCGTCACCCCGTGCCTGCGGAAGAACAAAAATGCCCATCAACGCATGAGCAACT	6546
Query	7687	CGTTGCTACGCCATCAAACTCTGGTGTATTCACCACTTACGCAGTGCTTGCCAAAGC	7746
Sbjct	6547	CGTTGCTACGCCATCAAACTCTGGTGTATTCACCACTTACGCAGTGCTTGCCAAAGC	6606

Query	7747	AGAAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCA	7806
Sbjct	6607	AGAAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCA	6666
Query	7807	AGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTT	7866
Sbjct	6667	AGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTT	6726
Query	7867	GCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGCTATGCGGGCAAAGACGTCC	7926
Sbjct	6727	GCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGCTATGCGGGCAAAGACGTCC	6786
Query	7927	GTTCGCAATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAG	7986
Sbjct	6787	GTTCGCAATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAG	6846
Query	7987	ACAGTGTAACACCAATAGACACTACCATCATGCGCAAGAACGAGGTTTCTGCGTTACGC	8046
Sbjct	6847	ACAGTGTAACACCAATAGACACTACCATCATGCGCAAGAACGAGGTTTCTGCGTTACGC	6906
Query	8047	CTGAGAAAGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTCCCGACCTGGGCGTGCGCG	8106
Sbjct	6907	CTGAGAAAGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTCCCGACCTGGGCGTGCGCG	6966
Query	8107	TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCGCTGGCCGTGATGGGAA	8166
Sbjct	6967	TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCGCTGGCCGTGATGGGAA	7026
Query	8167	GCTCTACGGAATTCGAATCTACCCAGGACAGCGGGTTGAATTCCTGTGCAAGCGTGGAA	8226
Sbjct	7027	GCTCTACGGAATTCGAATCTACCCAGGACAGCGGGTTGAATTCCTGTGCAAGCGTGGAA	7086
Query	8227	AGTCCAAGAAAGCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTGACTCCACAGTCA	8286
Sbjct	7087	AGTCCAAGAAAGCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTGACTCCACAGTCA	7146
Query	8287	CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCAAG	8346
Sbjct	7147	CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCAAG	7206
Query	8347	CCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATT	8406
Sbjct	7207	CCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATT	7266
Query	8407	CAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCGCGCGGAGCGGCTACTGACAACCTAGCT	8466
Sbjct	7267	CAAGGGGGGAAAACCTGCGGCTATCGCAGGTGCGCGCGGAGCGGCTACTGACAACCTAGCT	7326
Query	8467	GTGGTAACACCCCTACCTTGCTACATCAAGGCCGGGACGCGTGTGAGCGCGAGGGCTCC	8526
Sbjct	7327	GTGGTAACACCCCTACCTTGCTACATCAAGGCCGGGACGCGTGTGAGCGCGAGGGCTCC	7386
Query	8527	AGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTCGGGGG	8586
Sbjct	7387	AGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTCGGGGG	7446
Query	8587	TCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGAGGAGCTATGACCAAGTACTCCGCC	8646
Sbjct	7447	TCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGAGGAGCTATGACCAAGTACTCCGCC	7506
Query	8647	CCCCCGGGGACCCCAACAACAGAAATACGACTTGGAGCTTATAACATCATGCTCTCCCA	8706
Sbjct	7507	CCCCCGGGGACCCCAACAACAGAAATACGACTTGGAGCTTATAACATCATGCTCTCCCA	7566
Query	8707	ACGTGTACGTGCGCCACGACGGCGCTGGAAGAGGGTCTACTACCTTACCCGTGACCCTA	8766
Sbjct	7567	ACGTGTACGTGCGCCACGACGGCGCTGGAAGAGGGTCTACTACCTTACCCGTGACCCTA	7626
Query	8767	CAACCCCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTCAATTCCTGGC	8826
Sbjct	7627	CAACCCCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTCAATTCCTGGC	7686
Query	8827	TAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACATGATGACCAATT	8886
Sbjct	7687	TAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACATGATGACCAATT	7746

Query	8887	TCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTACG	8946
Sbjct	7747	TCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTACG	7806
Query	8947	GAGCGTGTACTTCCATAGAACCACTTGGATCTACTCCAAATCATTCAAAGACTCCATGGCC	9006
Sbjct	7807	CAGCGTGTACTTCCATAGAACCACTTGGATCTACTCCAAATCATTCAAAGACTCCATGGCC	7866
Query	9007	TCAGCGCATTTTCTACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCC	9066
Sbjct	7867	TCAGCGCATTTTCTACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCC	7926
Query	9067	TCAGAAAACTTGGGGTCCCGCCCTTGGCAGCTTGGAGACACCGGGCCCGGAGCGTCCGGC	9126
Sbjct	7927	TCAGAAAACTTGGGGTCCCGCCCTTGGCAGCTTGGAGACACCGGGCCCGGAGCGTCCGGC	7986
Query	9127	CTAGGCTTCTGTCCAGAGGAGCGGGCTGCCATATGTGGCAAGTACCTTCTCAACTGGG	9186
Sbjct	7987	CTAGGCTTCTGTCCAGGAGGAGCGGGCTGCCATATGTGGCAAGTACCTTCTCAACTGGG	8046
Query	9187	CAGTAAGAACAAAGCTCAAACCTACTCCAATAGCGGCGCTGGCCGGCTGGAATTTGTCCG	9246
Sbjct	8047	CAGTAAGAACAAAGCTCAAACCTACTCCAATAGCGGCGCTGGCCGGCTGGAATTTGTCCG	8106
Query	9247	GTTGGTTACCGGCTGGCTACAGCGGGGAGACATTTATACAGCGTGTCTCATGCCCGGC	9306
Sbjct	8107	GTTGGTTACCGGCTGGCTACAGCGGGGAGACATTTATACAGCGTGTCTCATGCCCGGC	8166
Query	9307	CCCGCTGGTTCTGGTTTTGCTACTCTGCTCGCTGCAGGGGTAGGCATCTACCTCTCC	9366
Sbjct	8167	CCCGCTGGTTCTGGTTTTGCTACTCTGCTCGCTGCAGGGGTAGGCATCTACCTCTCC	8226
Query	9367	CCAACCGATGA-AGGTTGGGGTAAACACTCCGGCCCTCTTAAGCCATT--CTGTGtttttt	9424
Sbjct	8227	CCAACCGGTGACA--TT---TCC-CTTTTTTTTTTTTTTTTTTTTTTTCCTCC-TTTTTT	8278
Query	9425	tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt	9484
Sbjct	8279	TTTTTTTTTTTTTTTTTTTTTT-TTTTTTTTTTTCCT--TT-CCTCTTTTTTCCCTTC	8334
Query	9485	tttt--ttttttttttAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAG	9542
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Query	9543	GTCCTGAGCCGCATGACTGCAGAGAGTGCTGATATGGCCTCTCTGCAGATCATGT	9599
Sbjct	8395	GTCCTGAGCCGCATGACTGCAGAGAGTGCTGATATGGCCTCTCTGCAGATCATGT	8451

Score = 1062 bits (575), Expect = 0.0
Identities = 584/588 (99%), Gaps = 2/588 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGA-ATCACTCCCTGTGAGGAAC TACT	59
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCAT-AGATCACTCCCTGTGAGGAAC TACT	59
Query	60	GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGCAGCCTCCAGGA	119
Sbjct	60	GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTGCAGCCTCCAGGA	119
Query	120	cccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA	179
Sbjct	120	CCCCCCCCCTCCGGGAGAGCCATAGTGTCTGCGGAAACCGGTGAGTACACCGGAATTGCCA	179
Query	180	GGACGACCGGGTTCCTTCTTGATATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC	239
Sbjct	180	GGACGACCGGGTTCCTTCTTGATATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC	239
Query	240	CGCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGGAAAGGCTTGTGGTACTGCCGTATAG	299
Sbjct	240	CGCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGGAAAGGCTTGTGGTACTGCCGTATAG	299
Query	300	GGTGCTTGGGAGTGCCCCGGGAGGTCTGTGAGACGCTGCACCATGAGCAGCAATCTCTAAA	359


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Sbjct 300 GGTGCTTGCAGAGTGCCCGGAGGTCCTCGTAGACCGTGACCATGAGCAGCAATCCTAAA 359
Query 360 CCTCAAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCGAAGTTCCCGGGT 419
Sbjct 360 CCTCAAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCGAGTTCCCGGGT 419
Query 420 GGCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTG 479
Sbjct 420 GGCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTG 479
Query 480 CGCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGAGCTCAGCCTATCCCC 539
Sbjct 480 CGCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGTGTAGAGCTCAGCCTATCCCC 539
Query 540 AAGGCACGTCGCGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCT 587
Sbjct 540 AAGGCACGTCGCGCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCT 587

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>emb|AX663429.1| Sequence 3 from Patent WO02088338
Length=8451

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

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Score = 1.208e+04 bits (6542), Expect = 0.0
Identities = 6742/6837 (98%), Gaps = 20/6837 (0%)
Strand=Plus/Plus

Query 2769 CTGGACACGGAGGTGGCCGCGTCGTGTGGCGCGTGTGTTCTTGTGCGGTTAATGGCGCTG 2828
Sbjct 1629 CTGGACACGGAGGTGGCCGCGTCGTGTGGCGCGTGTGTTCTTGTGCGGTTAATGGCGCTG 1688
Query 2829 ACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT 2888
Sbjct 1689 ACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT 1748
Query 2889 CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGTCcgggggggg 2948
Sbjct 1749 CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCCCAACGTCcggggggggg 1808
Query 2949 CGCGATGCCGTCATCTTACTCATGTGTAGTAGACCCGACCCTGGTATTTGACATCACC 3008
Sbjct 1809 CGCGATGCCGTCATCTTACTCATGTGTGTGTACACCCGACTCTGGTATTTGACATCACC 1868
Query 3009 AAACACTCTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTTAAAGTC 3068
Sbjct 1869 AAACACTCTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTTAAAGTC 1928
Query 3069 CCTACTTCTGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGC 3127
Sbjct 1929 CCTACTTCTGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATGA-C 1987
Query 3128 CGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT 3187
Sbjct 1988 CGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT 2047
Query 3188 GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACACGGCCTGCGAGATCTGGCCGT 3247
Sbjct 2048 GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACACGGCCTGCGAGATCTGGCCGT 2107
Query 3248 GGCCTGTGGAACCAAGTGTCTTCTCCGGAATGGAGACCAAGCTCATACGTTGGGGGGCAGA 3307
Sbjct 2108 GGCCTGTGGAACCAAGTGTCTTCTCCGGAATGGAGACCAAGCTCATACGTTGGGGGGCAGA 2167
Query 3308 TACCGCCGCGTGGCGGTGACATCATCAACGGCTTGCCCGCTCTGCCCCTAGGGGCCAGGA 3367
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Query 3368 GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGTGCGGCCCAT 3427
Sbjct 2228 GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGTGCGGCCCAT 2287
Query 3428 CACGGCGTACGCCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCCTGACTGG 3487

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Sbjct	2288	CACGGCGTACGCCACGACAGAGAGGCTCTCTAGGGTGTATAATCACCAGCCTGACTGG	2347
Query	3488	CGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCAAAACCTT	3547
Sbjct	2348	CGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCAAAACCTT	2407
Query	3548	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAAGGGCCGGAACGAGGAC	3607
Sbjct	2408	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAAGGGCCGGAACGAGGAC	2467
Query	3608	CATCGCATCACCAAGGGTCTGTCTATCCAGATGTATACCAATGTGGACCAAGACCTTGT	3667
Sbjct	2468	CATCGCATCACCAAGGGTCTGTCTATCCAGATGTATACCAATGTGGACCAAGACCTTGT	2527
Query	3668	GGGCTGGCCCGCTCTCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGCTCTCTCGGA	3727
Sbjct	2528	GGGCTGGCCCGCTCTCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGCTCTCTCGGA	2587
Query	3728	CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCAGGTGATAGCAG	3787
Sbjct	2588	CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCAGGTGATAGCAG	2647
Query	3788	GGGTAGCCTGCTTTTCGCCCCGGCCCAITTTCTACTTGAAAGGCTCTCTCGGGGGTCCGCT	3847
Sbjct	2648	GGGTAGCCTGCTTTTCGCCCCGGCCCAITTTCTACTTGAAAGGCTCTCTCGGGGGTCCGCT	2707
Query	3848	GTGTGCCCCCGGGACACGCCGTGGGCTATTACAGGCCGCGGTGTGCACCCGTGGAGT	3907
Sbjct	2708	GTGTGCCCCCGGGACACGCCGTGGGCTATTACAGGCCGCGGTGTGCACCCGTGGAGT	2767
Query	3908	GGCTAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGACAAACATGAGATCCCCGT	3967
Sbjct	2768	GGCCAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGACAAACATGAGATCCCCGT	2827
Query	3968	GTTACGGACAACCTCTCTCCACAGCAGTGCAGGAGTTCAGAGTGGCCCACTGCA	4027
Sbjct	2828	GTTACGGACAACCTCTCTCCACAGCAGTGCAGGAGTTCAGAGTGGCCCACTGCA	2887
Query	4028	TGCTCCCAACGGCAGCGGTAAGAGCACCAAGGTCCCGCTGCGTACGACGCCAGGGCTA	4087
Sbjct	2888	TGCTCCCAACGGCAGTGGTAAGAGCACCAAGGTCCCGCTGCGTACGACGCCAGGGCTA	2947
Query	4088	CAAGGTGTGGTGCTCAACCCCTCTGTGTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	4147
Sbjct	2948	CAAGGTGTGGTGCTCAACCCCTCTGTGTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	3007
Query	4148	CAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATACCACTGGCAG	4207
Sbjct	3008	CAAGGCCATGGGGTGCATCCTAATATCAGGACCGGGGTGAGAACAAATACCACTGGCAG	3067
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Sbjct	3068	CCCCATACGTACTCCACCTACGGCAAGTTCCTTGCGCAGCGGGGTGCTCAGGAGGTGC	3127
Query	4268	TTATGACATAATAATTTGTGACGAGTGCCACTCCACGATGCCACATCCATCTTGGGCAT	4327
Sbjct	3128	TTATGACATAATAATTTGTGACGAGTGCCACTCCACGATGCCACATCCATCTTGGGCAT	3187
Query	4328	CGGCACTGTCTTGTACCAAGCAGAGACTCGCGGGCGAGACTGGTTGTGCTCGCCACTGC	4387
Sbjct	3188	CGGCACTGTCTTGTACCAAGCAGAGACTCGCGGGCGAGACTGGTTGTGCTCGCCACTGC	3247
Query	4388	TACCCCTCCGGGCTCCGTCAGTGTGTCCATCTTAACATCGAGGAGTTGCTCTGTGCCA	4447
Sbjct	3248	TACCCCTCCGGGCTCCGTCAGTGTGTCCATCTTAACATCGAGGAGTTGCTCTGTGCCA	3307
Query	4448	CACCGGAGAGATCCCTTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGAA	4506
Sbjct	3308	CACCGGAGAGATCCC-TTCTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGAA	3366
Query	4507	GACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCAGCAGCTCGCCGCGAAGCTGGTCG	4566
Sbjct	3367	GACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCAGCAGCTCGCCGCGAAGCTGGTCG	3426
Query	4567	CATTGGGCATCAATGCCGTGGCCTACTACCGGGTCTTGACGTGTCTGTCATCCCGACCA	4626

Sbjct	3427	CATTGGGCATCAATGCCGTGGCCTACTACCGGGAGCTTACGCTGTCTGTATCCCGACCA	3486
Query	4627	CGGGCGATGTTGTCTGTCTGTGACCGATGCTCTCATGACTGGCTTTACGGGCGACTTCG	4686
Sbjct	3487	CGGGCGATGTTGTCTGTCTGTGACCGATGCTCTCATGACTGGCTTTACGGGCGACTTCG	3546
Query	4687	ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTACAGCCTTGACCCTTA	4746
Sbjct	3547	ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTACAGCCTTGACCCTTA	3606
Query	4747	CCTTTACCATTGAGACAACACCGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGG	4806
Sbjct	3607	CCTTTACCATTGAGACAACACCGCTCCCCAGGATGCTGTCTCCAGGACTCAGCGCCGGG	3666
Query	4807	GCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCAGGGGAGCGCCCT	4866
Sbjct	3667	GCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCAGGGGAGCGCCCT	3726
Query	4867	CCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	4926
Sbjct	3727	CCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	3786
Query	4927	AGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	4986
Sbjct	3787	AGCTCATGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	3846
Query	4987	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTTACGGGCTCACTCATATAG	5046
Sbjct	3847	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTTACGGGCTCACTCATATAG	3906
Query	5047	ATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAACTTCTTACCTGGTAGCGT	5106
Sbjct	3907	ATGCCCACTTTTATCCAGACAAGCAGAGTGGGGAGAACTTCTTACCTGGTAGCGT	3966
Query	5107	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTTCCCATCGTGGGACAGATGTGA	5166
Sbjct	3967	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTTCCCATCGTGGGACAGATGTGA	4026
Query	5167	AGTGTTTGATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACAGACTGG	5226
Sbjct	4027	AGTGTTTGATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACAGACTGG	4086
Query	5227	GCCTGTTCAGAAATGAAGTCACCTGACGCACCCAATCACCAAATACATCATGACATGCA	5286
Sbjct	4087	GCCTGTTCAGAAATGAAGTCACCTGACGCACCCAATCACCAAATACATCATGACATGCA	4146
Query	5287	TGTCGGCCGACCTGGAGGTCTGTCACGAGCACTGGGTGCTCGTTGGCGGCTCTCGGCTG	5346
Sbjct	4147	TGTCGGCCGACCTGGAGGTCTGTCACGAGCACTGGGTGCTCGTTGGCGGCTCTCGGCTG	4206
Query	5347	CTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCTATAGTGGGAGGATGCTCTGT	5406
Sbjct	4207	CTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCTATAGTGGGAGGATGCTCTGT	4266
Query	5407	CCGGGAAGCGCGCAATTATACCTGACAGGGAGTTCTCTACAGGAGTTCGATGAGATGG	5466
Sbjct	4267	CCGGGAAGCGCGCAATTATACCTGACAGGGAGTTCTCTACAGGAGTTCGATGAGATGG	4326
Query	5467	AAGAGTGTCTCTAGCACTTACCGTACATCGAGCAAGGATGATGCTCGCTGAGCAGTTCA	5526
Sbjct	4327	AAGAGTGTCTCTAGCACTTACCGTACATCGAGCAAGGATGATGCTCGCTGAGCAGTTCA	4386
Query	5527	AGCAGAAGGCCCTTGGGCTCTGCGAGACCGGCTCCCGGCAATGAGAGGTATACACCCCTG	5586
Sbjct	4387	AGCAGAAGGCCCTTGGGCTCTGCGAGACCGGCTCCCGGCAATGAGAGGTATACACCCCTG	4446
Query	5587	CTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	5646
Sbjct	4447	CTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	4506
Query	5647	TCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCATTGCTT	5706
Sbjct	4507	TCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCCATTGCTT	4566
Query	5707	CATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCACTGGCCAAACCTCTCT	5766

Sbjct	4567	CATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACTGGCCAAACCTCTCTCT	4626
Query	5767	TCACAAATATTgagggggTGGGTGGCTGCCAGCTCGCCGCCCGGTGCCGCTACTGCGCT	5826
Sbjct	4627	TCACAAATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGGTGCCGCTACCGCT	4686
Query	5827	TTGTGGGTGCTGCCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAAGTGCTCG	5886
Sbjct	4687	TTGTGGGCGCTGCGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAAGTGCTCG	4746
Query	5887	TGGACATTCTTTCAGGGATATGGCGCGGGCGTGGCGGGAGCTCTTTAGTACATTCAAGATCA	5946
Sbjct	4747	TGGACATTCTTTCAGGGATATGGCGCGGGCGTGGCGGGAGCTCTTTAGTACATTCAAGATCA	4806
Query	5947	TGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCGCCCATCTCTCTCGC	6006
Sbjct	4807	TGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTACCCGCCCATCTCTCTCGC	4866
Query	6007	CTGAGGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGG	6066
Sbjct	4867	CTGAGGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGG	4926
Query	6067	GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGGAACCATG	6126
Sbjct	4927	GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGGAACCATG	4986
Query	6127	TTTCCCCCAGCAGCTACGTGCCGGAGAGCGATGACGCCGCCCGCTCACTGCCATACTCA	6186
Sbjct	4987	TTTCCCCCAGCAGCTACGTGCCGGAGAGCGATGACGCCGCCCGCTCACTGCCATACTCA	5046
Query	6187	GCAGCTCACTGTAAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCCGAGTGTA	6246
Sbjct	5047	GCAGCTCACTGTAAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCCGAGTGTA	5106
Query	6247	CACTCCATGCTCCGGTCTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	6306
Sbjct	5107	CACTCCATGCTCCGGTCTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	5166
Query	6307	GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCTGGGATTCCCTTTG	6366
Sbjct	5167	GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCTGGGATTCCCTTTG	5226
Query	6367	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCT	6426
Sbjct	5227	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCT	5286
Query	6427	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	6486
Sbjct	5287	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	5346
Query	6487	CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTTACACCAAGGGCC	6546
Sbjct	5347	CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTTACACCAAGGGCC	5406
Query	6547	CCTGTACTCCCTTCTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAGG	6606
Sbjct	5407	CCTGTACTCCCTTCTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAGG	5466
Query	6607	AATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	6666
Sbjct	5467	AATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	5526
Query	6667	ATCTTAAATGCCCGTGCCAGATCCCAATGCCCGGAATTTTACAGAAATTGGACGGGGTGC	6726
Sbjct	5527	ATCTTAAATGCCCGTGCCAGATCCCAATGCCCGGAATTTTACAGAAATTGGACGGGGTGC	5586
Query	6727	GCCTACACAGGTTTTCGCCCCCTTGCAGCCCTTGCTGCGGGAGGAGGTATCAATTAGAG	6786
Sbjct	5587	GCCTACATAGGTTTTCGCCCCCTTGCAGCCCTTGCTGCGGGAGGAGGTATCAATTAGAG	5646
Query	6787	TAGGACTCCACAGTATCCCGGTGGGGTTCGCAATTACCTTGCAGAGCCGGAACCGGACGTAG	6846
Sbjct	5647	TAGGACTCCACAGTATCCCGGTGGGGTTCGCAATTACCTTGCAGAGCCGGAACCGGACGTAG	5706
Query	6847	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAAACAGCAGAGCGCGCCGGGAGAA	6906

Sbjct	5707	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAAACAGCAGAGGCGCGCCGGAGAA	5766
Query	6907	GGTTGGCGAGAGGGTCAACCCCTTCTATGGCCAGCTCCTCGGTCAGCCAGCTGTCCGCTC	6966
Sbjct	5767	GGTTGGCGAGAGGGTCAACCCCTTCTATGGCCAGCTCCTCGGTCAGCCAGCTGTCCGCTC	5826
Query	6967	CATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCATAGAGG	7026
Sbjct	5827	CATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCATAGAGG	5886
Query	7027	CTAACCTCCTGTGGAGGCAAGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAAACA	7086
Sbjct	5887	CTAACCTCCTGTGGAGGCAAGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAAACA	5946
Query	7087	AAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGAGGCTCT	7146
Sbjct	5947	AAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGAGGCTCT	6006
Query	7147	CCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTCCGCCGGGCCCTGCCCGTCTGGG	7206
Sbjct	6007	CCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTCCGCCGGGCCCTGCCCGTCTGGG	6066
Query	7207	CGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCCAC	7266
Sbjct	6067	CGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCCAC	6126
Query	7267	CTGTGGTCCATGGCTGCCCGCTACCACTCCACGGTCCCTCTCTGTGCTCCGCGCTCGGA	7326
Sbjct	6127	CTGTGGTCCATGGCTGCCCGCTACCACTCCACGGTCCCTCTCTGTGCTCCGCGCTCGGA	6186
Query	7327	AAAAGCGTACGGTGGTCTTCAACCGAATCAACCTTACTCTGCTTGGCCGAGCTTGCCA	7386
Sbjct	6187	AAAAGCGTACGGTGGTCTTCAACCGAATCAACCTTACTCTGCTTGGCCGAGCTTGCCA	6246
Query	7387	CCAAAAGTTTTCGACGCTCCTCAACTTCGGCAATTACGGGCGACAATACGACAACATCTCT	7446
Sbjct	6247	CCAAAAGTTTTCGACGCTCCTCAACTTCGGCAATTACGGGCGACAATACGACAACATCTCT	6306
Query	7447	CTGAGCCCGCCCTTCTGGCTGCGGCGGACTCCGACGTTGAGTCTTATCTTCCATGCG	7506
Sbjct	6307	CTGAGCCCGCCCTTCTGGCTGCGGCGGACTCCGACGTTGAGTCTTATCTTCCATGCG	6366
Query	7507	CGGCGGCTGGAGGGGAGGCTGGGGATCCGGATCTCAGCGACGGGTATGGTCGACGGTCA	7566
Sbjct	6367	CGGCGGCTGGAGGGGAGGCTGGGGATCCGGATCTCAGCGACGGGTATGGTCGACGGTCA	6426
Query	7567	GTAGTGGGCGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCCTGGACAGGGC	7626
Sbjct	6427	GTAGTGGGCGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCCTGGACAGGGC	6486
Query	7627	CACCTCGTCACCCGTCGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACATGAGCAACT	7686
Sbjct	6487	CACCTCGTCACCCGTCGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACATGAGCAACT	6546
Query	7687	CGTGTCTACGCCATCAACAATCTGGTGTATTCACCACTTCACGAGTGCTTGCACAAAGGC	7746
Sbjct	6547	CGTGTCTACGCCATCAACAATCTGGTGTATTCACCACTTCACGAGTGCTTGCACAAAGGC	6606
Query	7747	AGAAGAAAGTCACATTGACAGACTGCAAGTCTTGGACAGCCATTACACGAGCGTGCTCA	7806
Sbjct	6607	AGAAGAAAGTCACATTGACAGACTGCAAGTCTTGGACAGCCATTACACGAGCGTGCTCA	6666
Query	7807	AGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTCAGAGGAAGCTT	7866
Sbjct	6667	AGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTCAGAGGAAGCTT	6726
Query	7867	GCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGCTATGGGCGAAAGACGTCC	7926
Sbjct	6727	GCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGCTATGGGCGAAAGACGTCC	6786
Query	7927	GTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTCTGGAAG	7986
Sbjct	6787	GTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTCTGGAAG	6846
Query	7987	ACAGTGTAAACCAATAGACACTACCATCATGGCCAGAAACAGAGTTTCTCGCTTCAGC	8046

Sbjct	6847	ACAGTGTAAACCAATAGACACTATCATCATGCCCAGAACGAGGCTCTTCGCGTTCAGC	6906
Query	8047	CTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGCGTGCGCG	8106
Sbjct	6907	CTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGCGTGCGCG	6966
Query	8107	TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAAGCTCCCCCTGGCCGTGATGGGAA	8166
Sbjct	6967	TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAAGCTCCCCCTGGCCGTGATGGGAA	7026
Query	8167	GCTCCTACGGAATCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGAAGCGTGGGA	8226
Sbjct	7027	GCTCCTACGGAATCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGAAGCGTGGGA	7086
Query	8227	AGTCCAAGAAGACCCCGATGGGGTTCCTGTAIGATAACCCGCTGTTTGTGACATCCAGTCA	8286
Sbjct	7087	AGTCCAAGAAGACCCCGATGGGGTTCCTGTAIGATAACCCGCTGTTTGTGACATCCAGTCA	7146
Query	8287	CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG	8346
Sbjct	7147	CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG	7206
Query	8347	CCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATT	8406
Sbjct	7207	CCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATT	7266
Query	8407	CAAGGGGGGAAAACCTGCGGCTACCCGAGGTGCCGCGGAGCGCGCTACTGACAACTAGCT	8466
Sbjct	7267	CAAGGGGGGAAAACCTGCGGCTATCGCAGGTGCCGCGGAGCGCGCTACTGACAACTAGCT	7326
Query	8467	GTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGGACGCTGTGAGCCGACGGGCTCC	8526
Sbjct	7327	GTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGGACGCTGTGAGCCGACGGGCTCC	7386
Query	8527	AGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTATCTGTGAAAGTGCAGGGG	8586
Sbjct	7387	AGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTATCTGTGAAAGTGCAGGGG	7446
Query	8587	TCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGAGGGCTATGACCAAGGTACTCCGCCC	8646
Sbjct	7447	TCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGAGGGCTATGACCAAGGTACTCCGCCC	7506
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Query	8707	ACGTGTCAAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTA	8766
Sbjct	7567	ACGTGTCAAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTA	7626
Query	8767	CAACCCCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTCAATTCCTGGC	8826
Sbjct	7627	CAACCCCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTCAATTCCTGGC	7686
Query	8827	TAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATGATGACCCATT	8886
Sbjct	7687	TAGGCAACATAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATGATGACCCATT	7746
Query	8887	TCCTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACCTGTGAGATCTACG	8946
Sbjct	7747	TCCTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACCTGTGAGATCTACG	7806
Query	8947	GAGCCTGCTACTCCTATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCC	9006
Sbjct	7807	GAGCCTGCTACTCCTATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCC	7866
Query	9007	TCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCC	9066
Sbjct	7867	TCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCC	7926
Query	9067	TCAGAAAACCTTGGGGTCCCGCCCTTGCAGACTTGGAGACACCGGGCCCGGAGCGTCCGCG	9126
Sbjct	7927	TCAGAAAACCTTGGGGTCCCGCCCTTGCAGACTTGGAGACACCGGGCCCGGAGCGTCCGCG	7986
Query	9127	CTAGGCTTCTGTGCCAGGAGGACAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGG	9186

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Sbjct  7987  CTAGGCTTCCTGCTCCAGGGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGG  8046
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Sbjct  8047  CAGTAAGAACCAAGAGCTCAAACCTCACTCCAATAGCGGCCGTGGCCGGCTGGACTTGTCCG  8106
Query   9247  GTTGGTTACAGGGCTGGCTACAGCGGGGAGACATTATACACGCGTGTCTCATGCCCGGC  9306
Sbjct  8107  GTTGGTTACAGGGCTGGCTACAGCGGGGAGACATTATACACGCGTGTCTCATGCCCGGC  8166
Query   9307  CCCGCTGGTTCTGGTTTTGCTACTCTCTGCTCGCTGCAGGGGTAGGCATCTACCTCTCTCC  9366
Sbjct  8167  CCCGCTGGTTCTGGTTTTGCTACTCTCTGCTCGCTGCAGGGGTAGGCATCTACCTCTCTCC  8226
Query   9367  CCAACCGATGA-AGGTTGGGTAACACACTCCGGCTCTTAAGCCATTT-CCTGttttttt  9424
Sbjct  8227  CCARCCGGTGACA--TT----TCC-CTTTTTTTTTTTTTTTTTTTTTTTTCCC-TTTTTT  8278
Query   9425  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt  9484
Sbjct  8279  TTTTTTTTTTTTTTTTTTTT-TTTTTTTTTTTCCTT--TT-CCTTCATTTTCCCTTTC  8334
Query   9485  tttt--tttttttttAAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAG  9542
Sbjct  8335  TCTTCTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAG  8394
Query   9543  GTCCGTGAGCCGATGACTGCAGAGAGTGCTGATAGTGGCTCTCTGCAGATCATGT  9599
Sbjct  8395  GTCCGTGAGCCGATGACTGCAGAGAGTGCTGATAGTGGCTCTCTGCAGATCATGT  8451

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Score = 1062 bits (575), Expect = 0.0
 Identities = 584/588 (99%), Gaps = 2/588 (0%)
 Strand=Plus/Plus

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Sbjct   1      GGCAGCCCCCTGATGGGGGCGACACTCCACCAT-AGATCACTCCCCCTGTGAGGAACACT  59
Query   60     GTCTTCACGAGAAAGCGCTAGCCATGGCGTTAGTATGAGTGTCTGCAGCCTCCAGGA  119
Sbjct   60     GTCTTCACGAGAAAGCGCTAGCCATGGCGTTAGTATGAGTGTCTGCAGCCTCCAGGA  119
Query   120    ccccccTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA  179
Sbjct   120    CCCCCCTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA  179
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Sbjct   180    GGACGACCGGGTCTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC  239
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Sbjct   240    CGCAAGACTGTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAG  299
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Sbjct   360    CCTCAAGAAAAACCAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCTGGGT  419
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Sbjct   420    GGCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCGAGGGGCCCTAGATTGGGTGTG  479
Query   480    CGCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCC  539
Sbjct   480    CGCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCC  539
Query   540    AAGGCACGTGCGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCT  587
Sbjct   540    AAGGCACGTGCGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCT  587

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>gb|EA372965.1| Sequence 1 from patent US 7314710
Length=6609

Score = 1.188e+04 bits (6435), Expect = 0.0
Identities = 6553/6611 (99%), Gaps = 4/6611 (0%)
Strand=Plus/Plus

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Query	2829	ACTCTGTGCGCATATTACAAGCGCATATACAGCTGGTGCATGTGGTGGCTTCAGTATTTT	2888
Sbjct	61	ACTCTGTGCGCATATTACAAGCGCATATACAGCTGGTGCATGTGGTGGCTTCAGTATTTT	120
Query	2889	CTGACAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCCCCCTCAACGTCGGGGGGG	2948
Sbjct	121	CTGACAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCCCCCTCAACGTCGGGGGGG	180
Query	2949	CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCGACCCCTGGTATTTGACATCACC	3008
Sbjct	181	CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCGACCTGGTATTTGACATCACC	240
Query	3009	AAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTC	3068
Sbjct	241	AAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTC	300
Query	3069	CCCTACTTTCGTGCGCGTTCAAGGCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGC	3127
Sbjct	301	CCCTACTTTCGTGCGCGTTCAAGGCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATGA-C	359
Query	3128	CGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT	3187
Sbjct	360	CGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT	419
Query	3188	GTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAACGGGCTGCGAGATCTGGCCGT	3247
Sbjct	420	GTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAACGGGCTGCGAGATCTGGCCGT	479
Query	3248	GGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	3307
Sbjct	480	GGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	539
Query	3308	TACCGCCGCGTGGGTGACATCATCAACGGCTTGCCCGTCTTGCCCGTAGGGGCCAGGA	3367
Sbjct	540	TACCGCCGCGTGGGTGACATCATCAACGGCTTGCCCGTCTTGCCCGTAGGGGCCAGGA	599
Query	3368	GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCAT	3427
Sbjct	600	GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCAT	659
Query	3428	CACGGCGTACGCCACGACGAGAGGCGCTCCTAGGGTGTATAATCACCAGCCTGACTGG	3487
Sbjct	660	CACGGCGTACGCCACGACGAGAGGCGCTCCTAGGGTGTATAATCACCAGCCTGACTGG	719
Query	3488	CCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGTACCCAAACCTT	3547
Sbjct	720	CCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGTACCCAAACCTT	779
Query	3548	CCTGGCAACGTGCATCAATGGGGTATGCTGGAGTGTCTACCACGGGCGCGAACGAGGAC	3607
Sbjct	780	CCTGGCAACGTGCATCAATGGGGTATGCTGGAGTGTCTACCACGGGCGCGAACGAGGAC	839
Query	3608	CATCGCATCACCACGAGGTCCTGTTCATCAGATGTATACCAATGTGGACCAAGACCTTGT	3667
Sbjct	840	CATCGCATCACCACGAGGTCCTGTTCATCAGATGTATACCAATGTGGACCAAGACCTTGT	899
Query	3668	GGGCTGGCCGCTCCTCAAGGTTCCCGCTCATTGACACCCCTGTACCTGCGGCTCCTCGGA	3727
Sbjct	900	GGGCTGGCCGCTCCTCAAGGTTCCCGCTCATTGACACCCCTGTACCTGCGGCTCCTCGGA	959
Query	3728	CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCTGCGCGGCGAGGTGATAGCAG	3787
Sbjct	960	CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCTGCGCGGCGAGGTGATAGCAG	1019
Query	3788	GGGTAGCTGCTTTTCGCCCGGCCATTTCCTACTTGAAAGGCTCCTCGGGGGTCCGCT	3847


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Sbjct 1020 GGGTAGCCTGCTTTTGCCCGGCCATTTCCTACCTAAAGGCTCCTCGGGGGTCCGCT 1079
Query 3848 GTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCACCCGGGAGT 3907
Sbjct 1080 GTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCACCCGGGAGT 1139
Query 3908 GGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGT 3967
Sbjct 1140 GGCCAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGATCCCCGGT 1199
Query 3968 GTTCACGGACAACCTCTCTCCACCAGCAGTGGCCACAGAGCTTCAGGTGGCCCACTGCA 4027
Sbjct 1200 GTTCACGGACAACCTCTCTCCACCAGCAGTGGCCACAGAGCTTCAGGTGGCCCACTGCA 1259
Query 4028 TGCTCCCAACCGGACGGTAAAGAGCACCAGGTCCCGGCTGCGTACGACGCCAGGGCTA 4087
Sbjct 1260 TGCTCCCAACCGGACGGTAAAGAGCACCAGGTCCCGGCTGCGTACGACGCCAGGGCTA 1319
Query 4088 CAAGGTGTGTGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTGGTGTCTACATGTC 4147
Sbjct 1320 CAAGGTGTGTGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTGGTGTCTACATGTC 1379
Query 4148 CAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGTGAGAACAAATTACCACTGGCAG 4207
Sbjct 1380 CAAGGCCCATGGGGTGATCCTAATATCAGGACCGGGTGAGAACAAATTACCACTGGCAG 1439
Query 4208 CCCCATCAGTACTCCACCTACGCAAGTTCTTGCCGACGGCGGGTGTCTCAGGAGGTGC 4267
Sbjct 1440 CCCCATCAGTACTCCACCTACGCAAGTTCTTGCCGACGGCGGGTGTCTCAGGAGGTGC 1499
Query 4268 TTATGACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT 4327
Sbjct 1500 TTATGACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT 1559
Query 4328 CGGCACTGTCTTGTACCAAGCAGAGACTGCGGGGGCAGAGCTGGTGTGTCTCGCCACTGC 4387
Sbjct 1560 CGGCACTGTCTTGTACCAAGCAGAGACTGCGGGGGCAGAGTGGTGTGTCTCGCCACTGC 1619
Query 4388 TACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGTTGTCTGTCCAC 4447
Sbjct 1620 TACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGTTGTCTGTCCAC 1679
Query 4448 CACCGGAGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCAGAGGTGATCAAGGGGGAA 4506
Sbjct 1680 CACCGGAGAGATCCC-TTCTACGGCAAGGCTATCCCCCTCAGAGGTGATCAAGGGGGAA 1738
Query 4507 GACATCTCATCTTCTGCACTCAAAGAAGAAGTGCAGAGCTCGCCGCGAAGCTGGTCG 4566
Sbjct 1739 GACATCTCATCTTCTGCACTCAAAGAAGAAGTGCAGAGCTCGCCGCGAAGCTGGTCG 1798
Query 4567 CATTTGGGCATCAATGCCGTGGCCTACTACCGGGCTTGTGACGTGTCTGTATCCCGACCA 4626
Sbjct 1799 CATTTGGGCATCAATGCCGTGGCCTACTACCGGGAAGTGTGACGTGTCTGTATCCCGACCA 1858
Query 4627 GCGGCGATGTTGTGCTGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGGCACTTCG 4686
Sbjct 1859 GCGGCGATGTTGTGCTGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGGCACTTCG 1918
Query 4687 ACTCTGTGATAGACTGCAACACGCTGTGTCACTCAGACAGTCGATTTACGCTTGACCTTA 4746
Sbjct 1919 ACTCTGTGATAGACTGCAACACGCTGTGTCACTCAGACAGTCGATTTACGCTTGACCTTA 1978
Query 4747 CCTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGG 4806
Sbjct 1979 CCTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAGCGCCGGG 2038
Query 4807 GCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGAGCGCCCT 4866
Sbjct 2039 GCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGAGCGCCCT 2098
Query 4867 CCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG 4926
Sbjct 2099 CCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG 2158
Query 4927 AGCTCACGCCCGGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCGGGGCTTC 4986
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Sbjct	2159	AGCTCATGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	2218
Query	4987	CCGTGTGCCAGGACCATTCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAG	5046
Sbjct	2219	CCGTGTGCCAGGACCATTCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAG	2278
Query	5047	ATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGT	5106
Sbjct	2279	ATGCCCACTTTCTATCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGT	2338
Query	5107	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGATGTGGA	5166
Sbjct	2339	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGATGTGGA	2398
Query	5167	AGTGTTTGATCCGCCTTAAACCCACCTTCATGGGCCAACACCCCTGCTATACAGACTGG	5226
Sbjct	2399	AGTGTTTGATCCGCCTTAAACCCACCTTCATGGGCCAACACCCCTGCTATACAGACTGG	2458
Query	5227	GCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATACCAAATACATCATGACATGCA	5286
Sbjct	2459	GCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATACCAAATACATCATGACATGCA	2518
Query	5287	TGTGCGCGGACCTGGAGGTGCTCAGAGCACTTGGGTGCTCGTTGCGCGGCTTCCTGGCTG	5346
Sbjct	2519	TGTGCGCGGACCTGGAGGTGCTCAGAGCACTTGGGTGCTCGTTGCGCGGCTTCCTGGCTG	2578
Query	5347	CTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGT	5406
Sbjct	2579	CTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGT	2638
Query	5407	CCGGGAAGCCGCGAATTATACCTGACAGGGAGGTTCTCTACCAAGGAGTTCGATGAGATGG	5466
Sbjct	2639	CCGGGAAGCCGCGAATTATACCTGACAGGGAGGTTCTCTACCAAGGAGTTCGATGAGATGG	2698
Query	5467	AAGAGTGCTCTCAGCACTTACCGTACATCGAGGAGGATGATGCTCGTGCAGAGCTTCA	5526
Sbjct	2699	AAGAGTGCTCTCAGCACTTACCGTACATCGAGGAGGATGATGCTCGTGCAGAGCTTCA	2758
Query	5527	AGCAGAAGGCCCTCGGCCCTCTGACAGACCGCGTCCGCCATGACAGAGTTATCACCCCTG	5586
Sbjct	2759	AGCAGAAGGCCCTCGGCCCTCTGACAGACCGCGTCCGCCATGACAGAGTTATCACCCCTG	2818
Query	5587	CTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGAATTCA	5646
Sbjct	2819	CTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGAATTCA	2878
Query	5647	TCAGTGGGATACAATACTTGGCGGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	5706
Sbjct	2879	TCAGTGGGATACAATACTTGGCGGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	2938
Query	5707	CATTGATGGCTTTTACAGTGGCGGTACACAGCCCACTAACCACTGGCCAAACCTCTCTCT	5766
Sbjct	2939	CATTGATGGCTTTTACAGTGGCGGTACACAGCCCACTAACCACTGGCCAAACCTCTCTCT	2998
Query	5767	TCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCGCGCCCCGGTGGCGCTACTGCCT	5826
Sbjct	2999	TCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCGCGCCCCGGTGGCGCTACTGCCT	3058
Query	5827	TGTGGGGTGGTGGCTTAGCTGGCGCGGCCATCGGACGCGTTGGAAGTGGGGAAGTCCTCG	5886
Sbjct	3059	TGTGGGGTGGTGGCTTAGCTGGCGCGGCCATCGGACGCGTTGGAAGTGGGGAAGTCCTCG	3118
Query	5887	TGGACATTTCTTGAGGGTATGGCGCGGGCGTGGCGGGAGCTTGTAGATTCAAGATCA	5946
Sbjct	3119	TGGACATTTCTTGAGGGTATGGCGCGGGCGTGGCGGGAGCTTGTAGATTCAAGATCA	3178
Query	5947	TGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGGCATCTCTCGC	6006
Sbjct	3179	TGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGGCATCTCTCGC	3238
Query	6007	CTGGAGCCCTTGATGTGGGTGGTCTTGCCGACAATACTGCGCGGCACGTTGGCCCGG	6066
Sbjct	3239	CTGGAGCCCTTGATGTGGGTGGTCTTGCCGACAATACTGCGCGGCACGTTGGCCCGG	3298
Query	6067	GCGAGGGGCGAGTGCAATGGATGAACCGGCTAATAGCTTCCGCTCCCGGGGGAACCATG	6126

Sbjct	3299	GCAGAGGGGCAGTGCATGGATGAACCGGCTAATAGCCTTCGCCCTCCCGGGGGAACCATG	3358
Query	6127	TTTCCCCACGCACACTAGTGGCGGAGAGCGATGCAGCGCCCGCGTCACTGCCATACTCA	6186
Sbjct	3359	TTTCCCCACGCACACTAGTGGCGGAGAGCGATGCAGCGCCCGCGTCACTGCCATACTCA	3418
Query	6187	GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAAGCTCGAGTGTGA	6246
Sbjct	3419	GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTACATCAGTGGATAAAGCTCGAGTGTGA	3478
Query	6247	CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	6306
Sbjct	3479	CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	3538
Query	6307	GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCAACACTGCCTGGGATTCCTTTTG	6366
Sbjct	3539	GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCAACACTGCCTGGGATTCCTTTTG	3598
Query	6367	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCT	6426
Sbjct	3599	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCT	3658
Query	6427	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	6486
Sbjct	3659	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	3718
Query	6487	CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAAGCCTACACCACGGGCC	6546
Sbjct	3719	CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAAGCCTACACCACGGGCC	3778
Query	6547	CCTGTACTCCCTTCCTCGCCGGAACATAAGTTTCGCGCTGTGGAGGGTGTCTCGAGAGG	6606
Sbjct	3779	CCTGTACTCCCTTCCTCGCCGGAACATAAGTTTCGCGCTGTGGAGGGTGTCTCGAGAGG	3838
Query	6607	AATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	6666
Sbjct	3839	AATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	3898
Query	6667	ATCTTAAATGCCCGTGCCAGATCCCATGCCCGGAATTTTTCACAGAATTGACGGGGTGC	6726
Sbjct	3899	ATCTTAAATGCCCGTGCCAGATCCCATGCCCGGAATTTTTCACAGAATTGACGGGGTGC	3958
Query	6727	GCCACACAGGTTTTCGCGCCCTTGCAGGCCCTTGCTCGGGAGGAGGTATCATTACAGAG	6786
Sbjct	3959	GCCACATAGGTTTTCGCGCCCTTGCAGGCCCTTGCTCGGGAGGAGGTATCATTACAGAG	4018
Query	6787	TAGGACTCCACGAGTACCCGCTGGGGTTCGAATTACCTTGCAGAGCCGGAACCGGACGTAG	6846
Sbjct	4019	TAGGACTCCACGAGTACCCGCTGGGGTTCGAATTACCTTGCAGAGCCGGAACCGGACGTAG	4078
Query	6847	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAA	6906
Sbjct	4079	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAA	4138
Query	6907	GGTTGGCGAGAGGGTGACCCCTTCTATGGCAGCTTCCTCGGCTAGCCAGCTGTCCGCTC	6966
Sbjct	4139	GGTTGGCGAGAGGGTGACCCCTTCTATGGCAGCTTCCTCGGCTAGCCAGCTGTCCGCTC	4198
Query	6967	CATCTCTCAAGGCAACTTGACCGCCCAACCATGACTCCCTTGACGCCGAGCTCATAGAGG	7026
Sbjct	4199	CATCTCTCAAGGCAACTTGACCGCCCAACCATGACTCCCTTGACGCCGAGCTCATAGAGG	4258
Query	7027	CTAACCTCCTGTGGAGGCAGAGATGGCGCGCAACATCACCAGGGTTGAGTCAGAGAACA	7086
Sbjct	4259	CTAACCTCCTGTGGAGGCAGAGATGGCGCGCAACATCACCAGGGTTGAGTCAGAGAACA	4318
Query	7087	AAGTGGTATCTCGACTCCTTCGATCCGCTTGTGGCAGAGGATGACGGCGAGTGCT	7146
Sbjct	4319	AAGTGGTATCTCGACTCCTTCGATCCGCTTGTGGCAGAGGATGACGGCGAGTGCT	4378
Query	7147	CCGTACTCGAGAAATTTCGCGGAAGTCTGGAGATTTCGCCCGGGCCCTGCCCTCTGGG	7206
Sbjct	4379	CCGTACTCGAGAAATTTCGCGGAAGTCTGGAGATTTCGCCCGGGCCCTGCCCTCTGGG	4438
Query	7207	CGCGGCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAGCCTGACTACGAACCAC	7266

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Sbjct 4439      |CGCGGCCGGACTACACCCCGCTAGTAGAGACGTGGAAAAGCCTGACTACGAACCAC| 4498
Query 7267      |CTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGGCTCCGCCCTCGGA| 7326
Sbjct 4499      |CTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCTCCTGTGGCTCCGCCCTCGGA| 4558
Query 7327      |AAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCTTGGCCGAGCTTGCCA| 7386
Sbjct 4559      |AAAAGCGTACGGTGGTCTCACCGAATCAACCTACTACTGCTTGGCCGAGCTTGCCA| 4618
Query 7387      |CCAAAAGTITTTGGCAGCTCCTCAACTTCCGGCATTACGGGGCACAATACGACAACATCCT| 7446
Sbjct 4619      |CCAAAAGTITTTGGCAGCTCCTCAACTTCCGGCATTACGGGGCACAATATGACAACATCCT| 4678
Query 7447      |CTGAGCCGCCCTTCTTGGCTGCCCCGACTCCGACGTTGAGTCTTATCTTCCATG| 7506
Sbjct 4679      |CTGAGCCGCCCTTCTTGGCTGCCCCCGACTCCGACGTTGAGTCTTATCTTCCATG| 4738
Query 7507      |CCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGGTCGACGGTCA| 7566
Sbjct 4739      |CCCCCTGGAGGGGGAGCCTGGGGATCCGGATTTACGCGACGGGTATGGTCGACGGTCA| 4798
Query 7567      |GTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTCTTGACAGGG| 7626
Sbjct 4799      |GTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATACCTTGACAGGG| 4858
Query 7627      |CACTCGTCACCCCGTGGCTGCGGAAGAACAATACTGCCATCAACGCACCTGAGCAACT| 7686
Sbjct 4859      |CACTCGTCACCCCGTGGCTGCGGAAGAACAATACTGCCATCAACGCACCTGAGCAACT| 4918
Query 7687      |CGTGTCTACGCCATCAACAATCTGGTGTATTTCCACCACCTTACGCGAGTGCTTGCCAAAG| 7746
Sbjct 4919      |CGTGTCTACGCCATCAACAATCTGGTGTATTTCCACCACCTTACGCGAGTGCTTGCCAAAG| 4978
Query 7747      |AGAAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACAGAGACGTGCTCA| 7806
Sbjct 4979      |AGAAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTACAGAGACGTGCTCA| 5038
Query 7807      |AGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTT| 7866
Sbjct 5039      |AGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTT| 5098
Query 7867      |GCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGCTATGGGGCAAAGACGTCC| 7926
Sbjct 5099      |GCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGCTATGGGGCAAAGACGTCC| 5158
Query 7927      |GTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGGGAAAGACCTTCTGGAAG| 7986
Sbjct 5159      |GTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGGGAAAGACCTTCTGGAAG| 5218
Query 7987      |ACAGTGTAAACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTACGC| 8046
Sbjct 5219      |ACAGTGTAAACCAATAGACACTATCATCATGGCCAAGAACGAGGTTCTTCTGCGTTACGC| 5278
Query 8047      |CTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTCCCGACCTGGGCGTGCGCG| 8106
Sbjct 5279      |CTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTCCCGACCTGGGCGTGCGCG| 5338
Query 8107      |TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCGCTGGCCGTGATGGGAA| 8166
Sbjct 5339      |TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCGCTGGCCGTGATGGGAA| 5398
Query 8167      |GCTCTACGGAATCCAATACTACACGAGGACAGCGGGTTGAATTCCTGTCGAAGCGTGGAA| 8226
Sbjct 5399      |GCTCTACGGAATCCAATACTACACGAGGACAGCGGGTTGAATTCCTGTCGAAGCGTGGAA| 5458
Query 8227      |AGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCA| 8286
Sbjct 5459      |AGTCCAAGAAGACCCCGATGGGGTTCCCGTATGATACCCGCTGTTTTGACTCCACAGTCA| 5518
Query 8287      |CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG| 8346
Sbjct 5519      |CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG| 5578
Query 8347      |CCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATT| 8406

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Sbjct 5579 |CCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATT| 5638
Query 8407 |CAAGGGGGGAAAACTGCGGCTACGCGAGGTGCCGCGGAGCGCGCTACTGACAACTAGCT| 8466
Sbjct 5639 |CAAGGGGGGAAAACTGCGGCTATCGCAGGTGCCGCGGAGCGCGCTACTGACAACTAGCT| 5698
Query 8467 |GTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGCGAGCCGAGGGCTCC| 8526
Sbjct 5699 |GTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGCGAGCCGAGGGCTCC| 5758
Query 8527 |AGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCAGGGG| 8586
Sbjct 5759 |AGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCAGGGG| 5818
Query 8587 |TCCAGGAGGACCGCGGAGCCTTGAGAGCCTTCACGAGGCTATGACACGGTACTCCG| 8646
Sbjct 5819 |TCCAGGAGGACCGCGGAGCCTTGAGAGCCTTTACGAGGCTATGACACGGTACTCCG| 8678
Query 8647 |CCCCGGGGGACCCCCACAACAGAAATACGACTTGGAGCTTATAACATCATGCTCCTCCA| 8706
Sbjct 5879 |CCCCGGGGGACCCCCACAACAGAAATACGACTTGGAGCTTATAACATCATGCTCCTCCA| 5938
Query 8707 |ACGTGTCAGTCGCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCTGACCCCTA| 8766
Sbjct 5939 |ACGTGTCAGTCGCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCTGACCCCTA| 5998
Query 8767 |CAACCCCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACTCCAGTCAATTCTCTGGC| 8826
Sbjct 5999 |CAACCCCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACTCCAGTCAATTCTCTGGC| 6058
Query 8827 |TAGGCAACATAATCATGTTTGCCCCACACTGTGGCGGAGGATGATATGATGACCCATT| 8886
Sbjct 6059 |TAGGCAACATAATCATGTTTGCCCCACACTGTGGCGGAGGATGATATGATGACCCATT| 6118
Query 8887 |TCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACATGTGAGATCAG| 8946
Sbjct 6119 |TCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACATGTGAGATCAG| 6178
Query 8947 |GAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCC| 9006
Sbjct 6179 |GAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCC| 6238
Query 9007 |TCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAATCAATAGGTTGGCCGATGCC| 9066
Sbjct 6239 |TCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAGTCAATAGGTTGGCCGATGCC| 6298
Query 9067 |TCAGAAACTTTGGGGTCCCGCCTTGCAGCTTGGAGACACGGGCGCGAGCGTCCGCG| 9126
Sbjct 6299 |TCAGAAACTTTGGGGTCCCGCCTTGCAGCTTGGAGACACGGGCGCGAGCGTCCGCG| 6358
Query 9127 |CTAGGCTTCTGTCCAGGAGGCGAGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGG| 9186
Sbjct 6359 |CTAGGCTTCTGTCCAGGAGGCGAGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGG| 6418
Query 9187 |CAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGGCTGGACTTGTCCG| 9246
Sbjct 6419 |CAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGGCTGGACTTGTCCG| 6478
Query 9247 |GTTGGTTACGGCTGGCTACAGCGGGGAGACATTATACAGCGTGCTCATGCCCGGC| 9306
Sbjct 6479 |GTTGGTTACGGCTGGCTACAGCGGGGAGACATTATACAGCGTGCTCATGCCCGGC| 6538
Query 9307 |CCGCTGGTTCTGGTTTTCGCTACTCTGCTCGCTGAGGGGTAGGCATCTACTCTCTCC| 9366
Sbjct 6539 |CCGCTGGTTCTGGTTTTCGCTACTCTGCTCGCTGAGGGGTAGGCATCTACTCTCTCC| 6598
Query 9367 |CCAACCGATGA 9377
Sbjct 6599 |CCAACCGTGA 6609

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>dbj|DD070076.1| PROCESS FOR THE REPLICATION OF THE HEPATITIS C VIRUS
Length=6609

Score = 1.188e+04 bits (6435), Expect = 0.0

Identities = 6553/6611 (99%), Gaps = 4/6611 (0%)
Strand=Plus/Plus

Query	2769	CTGGACACGGAGGTGGCCGCGTCGTGTGGCGCGTGTGTTCTTGTGCGGTTAATGGCGCTG	2828
Sbjct	1	CTGGACACGGAGGTGGCCGCGTCGTGTGGCGCGTGTGTTCTTGTGCGGTTAATGGCGCTG	60
Query	2829	ACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT	2888
Sbjct	61	ACTCTGTCACCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT	120
Query	2889	CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTcccccccTCAACGTCCTCCCCGGGG	2948
Sbjct	121	CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCCTCAACGTCCTGGGGGGGG	180
Query	2949	CGCGATGCGCGTCACTTTACTCATGTGTGTAGTACACCCGACCTGGTATTTGACATCACC	3008
Sbjct	181	CGCGATGCGCGTCACTTTACTCATGTGTGTGTACACCCGACTCTGGTATTTGACATCACC	240
Query	3009	AAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGTCTTAAAGTC	3068
Sbjct	241	AAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGTCTTAAAGTC	300
Query	3069	CCCTACTTTCGTGCGCGTTCAAGGCCCTTCCCGGATCTGCGCGCTAGCCGGAAGAT-AGC	3127
Sbjct	301	CCCTACTTTCGTGCGCGTTCAAGGCCCTTCCCGGATCTGCGCGCTAGCCGGAAGATGA-C	359
Query	3128	CGGAGGTCAATTACGTGCAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT	3187
Sbjct	360	CGGAGGTCAATTACGTGCAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT	419
Query	3188	GTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAAGGCGTGCAGATCTGGCCGT	3247
Sbjct	420	GTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAAGGCGTGCAGATCTGGCCGT	479
Query	3248	GGCTGTGGAAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	3307
Sbjct	480	GGCTGTGGAAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	539
Query	3308	TACCGCCGCGTGGGTGACATCATCAACGGCTTGGCCGTCTCTGCCCCGTAGGGGCCAGGA	3367
Sbjct	540	TACCGCCGCGTGGGTGACATCATCAACGGCTTGGCCGTCTCTGCCCCGTAGGGGCCAGGA	599
Query	3368	GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT	3427
Sbjct	600	GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT	659
Query	3428	CACGGCGTACGCCACGACGAGAGAGGCCCTCTAGGGTGTATAATCACCAGCCTGACTGG	3487
Sbjct	660	CACGGCGTACGCCACGACGAGAGAGGCCCTCTAGGGTGTATAATCACCAGCCTGACTGG	719
Query	3488	CCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGTACCCAAACCTT	3547
Sbjct	720	CCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGTACCCAAACCTT	779
Query	3548	CCTGGCAACGTGATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	3607
Sbjct	780	CCTGGCAACGTGATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	839
Query	3608	CATCGCATCACCAAGGGTCTGTGATCCAGATGTATACCAATGTGGACCAAGACCTTGT	3667
Sbjct	840	CATCGCATCACCAAGGGTCTGTGATCCAGATGTATACCAATGTGGACCAAGACCTTGT	899
Query	3668	GGGCTGGCCGCTCTTCAAGGTTCCCGCTCATTGACACCCCTGTACCTGCGGCTCCTCGGA	3727
Sbjct	900	GGGCTGGCCGCTCTTCAAGGTTCCCGCTCATTGACACCCCTGTACCTGCGGCTCCTCGGA	959
Query	3728	CCTTTACCTGTGTACGAGGACGCGCGATGTCATTCCCGTGCGCGGCGAGGTGATAGCAG	3787
Sbjct	960	CCTTTACCTGTGTACGAGGACGCGCGATGTCATTCCCGTGCGCGGCGAGGTGATAGCAG	1019
Query	3788	GGGTAGCCTGCTTTTCGCCCCGGGCCATTTCCTACTTGAAAGGCTCCTCGGGGGTCCGCT	3847
Sbjct	1020	GGGTAGCCTGCTTTTCGCCCCGGGCCATTTCCTACTTGAAAGGCTCCTCGGGGGTCCGCT	1079
Query	3848	GTTGTGCCCCGCGGACACCGCTGGGCCATTACAGGGCCGCGTGTGACCCGTGGAGT	3907

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Sbjct 1080      |||||GTGCCCCGCGGGACACGCCGTGGGCTATTACAGGCGCGGGTGTGACCCGTGGAGT 1139
Query 3908      GGCCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGAGACAACCATGAGATCCCCGGT 3967
Sbjct 1140      GGCCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGATCCCCGGT 1199
Query 3968      GTTCACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCCACCTGCA 4027
Sbjct 1200      GTTCACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCCACCTGCA 1259
Query 4028      TGCTCCCACCGGCAGCGGTAAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCACGGGCTA 4087
Sbjct 1260      TGCTCCCACCGGCAGGTGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCACGGGCTA 1319
Query 4088      CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC 4147
Sbjct 1320      CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC 1379
Query 4148      CAAGGCCATGGGGTGTATCCTAATATCAGGACCGGGGTGAGAACAAATTACCACTGGCAG 4207
Sbjct 1380      CAAGGCCATGGGGTGTATCCTAATATCAGGACCGGGGTGAGAACAAATTACCACTGGCAG 1439
Query 4208      CCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGTCTCAGGAGGTGC 4267
Sbjct 1440      CCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGTCTCAGGAGGCGC 1499
Query 4268      TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT 4327
Sbjct 1500      TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT 1559
Query 4328      CGGCACGTGCTCTTGACCAAGCAGAGACTCGGGGGCGAGACTGGTGTGCTCGCCACTGC 4387
Sbjct 1560      CGGCACGTGCTCTTGACCAAGCAGAGACTCGGGGGCGAGATTGGTGTGCTCGCCACTGC 1619
Query 4388      TACCCCTCCGGGCTCCGTCACGTGTGTCCCATCCTAACTCGAGGAGGTGTCTGTGTCAC 4447
Sbjct 1620      TACCCCTCCGGGCTCCGTCACGTGTGTCCCATCCTAACTCGAGGAGGTGTCTGTGTCAC 1679
Query 4448      CACCGGAGAGATCCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAA 4506
Sbjct 1680      CACCGGAGAGATCCC-TTTCTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAA 1738
Query 4507      GACATCTCATCTTCTGCCACTCAAAGAAGATGCGACGAGCTCGCCGCGAAGCTGGTGC 4566
Sbjct 1739      GACATCTCATCTTCTGTCACTCAAAGAAGATGCGACGAGCTCGCCGCGAAGCTGGTGC 1798
Query 4567      CATGGGCATCAATGCCGTGGCCTACTACCGGGCTTTGACGTGCTGTCAATCCCGACCA 4626
Sbjct 1799      CATGGGCATCAATGCCGTGGCCTACTACCGGGAAGTTGACGTGCTGTCAATCCCGACCA 1858
Query 4627      GCGGCGATGTTGTGTCGTGTCGACCGGATGCTCTCATGACTGGCTTTACCGGCGACTTCG 4686
Sbjct 1859      GCGGCGATGTTGTGTCGTGTCGACCGGATGCTCTCATGACTGGCTTTACCGGCGACTTCG 1918
Query 4687      ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCTTTGACCCCTA 4746
Sbjct 1919      ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCTTTGACCCCTA 1978
Query 4747      CCTTTACCAATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAGCCCGGG 4806
Sbjct 1979      CCTTTACCAATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAGCGCCGGG 2038
Query 4807      GCAGGACTGGCAGGGGGGAAGCCAGGCATCTATAGATTGTGGACCCGGGGAGCGCCCT 4866
Sbjct 2039      GCAGGACTGGCAGGGGGGAAGCCAGGCATCTACAGATTGTGGACCCGGGGAGCGCCCT 2098
Query 4867      CCGGCATGTTGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG 4926
Sbjct 2099      CCGGCATGTTGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG 2158
Query 4927      AGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC 4986
Sbjct 2159      AGCTCATGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC 2218
Query 4987      CCGGTGCCAGGACCATCTTGAATTTGGGAGGGCGCTTTACGGGCTCACTCATATAG 5046

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Sbjct 2219 |CCGTGTGCCAGGACCATTCTGAATTTTGGGAGGGCGCTTTACGGGCTCACCACATATAG| 2278
Query 5047 |ATGCCCACTTTTATATCCAGACAAGCAGAGTGGGGAGAACTTCTCTACCTGGTAGCGT| 5106
Sbjct 2279 |ATGCCCACTTTTATATCCAGACAAGCAGAGTGGGGAGAACTTCTCTACCTGGTAGCGT| 2338
Query 5107 |ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGATGTGGA| 5166
Sbjct 2339 |ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGATGTGGA| 2398
Query 5167 |AGTGTTTGATCCGCCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG| 5226
Sbjct 2399 |AGTGTTTGATCCGCCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG| 2458
Query 5227 |GCGTGTTTCAGAAATGAAGTACCCCTGACGCACCCAAATCACCAAATACATCATGACATGCA| 5286
Sbjct 2459 |GCGTGTTTCAGAAATGAAGTACCCCTGACGCACCCAAATCACCAAATACATCATGACATGCA| 2518
Query 5287 |TGTCGGCCGACCTGGAGGTGCTCAGCAGACCTGGGTGCTCGTTGGCGGCGTCTCGGCTG| 5346
Sbjct 2519 |TGTCGGCCGACCTGGAGGTGCTCAGCAGACCTGGGTGCTCGTTGGCGGCGTCTCGGCTG| 2578
Query 5347 |CTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCATAGTGGCAGGATGCTCTTGT| 5406
Sbjct 2579 |CTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCATAGTGGCAGGATGCTCTTGT| 2638
Query 5407 |CCGGGAAGCCGGCAATTATACCTGACAGGGAGTTCTCTACAGGAGTTCGATGAGATGG| 5466
Sbjct 2639 |CCGGGAAGCCGGCAATTATACCTGACAGGGAGTTCTCTACAGGAGTTCGATGAGATGG| 2698
Query 5467 |AAGAGTGTCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA| 5526
Sbjct 2699 |AAGAGTGTCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA| 2758
Query 5527 |AGCAGAAGGCCCTCGGCCCTCTGAGACCGCTCCCGCCATGAGAGGTATACACCCCTG| 5586
Sbjct 2759 |AGCAGAAGGCCCTCGGCCCTCTGAGACCGCTCCCGCCATGAGAGGTATACACCCCTG| 2818
Query 5587 |CTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA| 5646
Sbjct 2819 |CTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA| 2878
Query 5647 |TCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT| 5706
Sbjct 2879 |TCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT| 2938
Query 5707 |CATTGATGGCTTTTACAGCTGCCGTACACGCCCACTAACCACTGGCCAAACCCCTCTCT| 5766
Sbjct 2939 |CATTGATGGCTTTTACAGCTGCCGTACACGCCCACTAACCACTGGCCAAACCCCTCTCT| 2998
Query 5767 |TCAACATATTgggggggTGGGTGGCTGCCAGCTCGCCGCCCGGTCGCCCTACTGCCCT| 5826
Sbjct 2999 |TCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGGTCGCCCTACTGCCCT| 3058
Query 5827 |TTGTGGGTGCTGGCCTAGCTGGCGCCGCATCGGCAGCGTGGAGTGGGGAAGGTCTCTCG| 5886
Sbjct 3059 |TTGTGGGTGCTGGCCTAGCTGGCGCCGCATCGGCAGCGTGGAGTGGGGAAGGTCTCTCG| 3118
Query 5887 |TGGACATTCTTGAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTTGATGATTCAAGATCA| 5946
Sbjct 3119 |TGGACATTCTTGAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTTGATGATTCAAGATCA| 3178
Query 5947 |TGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGGCATCTCTCTCG| 6006
Sbjct 3179 |TGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTACC CGGCATCTCTCTCG| 3238
Query 6007 |CTGAGGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGACGTTGGCCCGG| 6066
Sbjct 3239 |CTGAGGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGACGTTGGCCCGG| 3298
Query 6067 |GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCTTTCGCCCTCCCGGGGGAACCATG| 6126
Sbjct 3299 |GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCTTTCGCCCTCCCGGGGGAACCATG| 3358
Query 6127 |TTTCCCCACGCACTACGTGCCGAGAGCGATGACAGCCGCCCGCTCACTGCCATACTCA| 6186

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Sbjct 3359 TTTCCCCACGCACTACGTGCCGAGAGCGATGCAGCCGCCCGCTCACTGCCATACTCA 3418
Query 6187 GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTA 6246
Sbjct 3419 GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTACATCAGTGGATAAGCTCGGAGTGTA 3478
Query 6247 CCACATCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA 6306
Sbjct 3479 CCACATCCATGCTCCGGCTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA 3538
Query 6307 GCGACTTTAAGACCTGGCTGAAAGCCAAAGCTCATGCCACAACCTGCTGGGATTCCTTTTG 6366
Sbjct 3539 GCGACTTTAAGACCTGGCTGAAAGCCAAAGCTCATGCCACAACCTGCTGGGATTCCTTTTG 3598
Query 6367 TGTCTGTCGAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGCAATTATGCACACTCGCT 6426
Sbjct 3599 TGTCTGTCGAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGCAATTATGCACACTCGCT 3658
Query 6427 GCGACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC 6486
Sbjct 3659 GCGACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC 3718
Query 6487 CTAGGACCTGACGAACAATGTGGAGTGGGACGTTCCCATTAACGCCCTACACCACGGGCC 6546
Sbjct 3719 CTAGGACCTGACGAACAATGTGGAGTGGGACGTTCCCATTAACGCCCTACACCACGGGCC 3778
Query 6547 CCTGTACTCCCTTCTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGTGTCTGCAGAGG 6606
Sbjct 3779 CCTGTACTCCCTTCTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGTGTCTGCAGAGG 3838
Query 6607 AATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA 6666
Sbjct 3839 AATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA 3898
Query 6667 ATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAAATGGACGGGGTGC 6726
Sbjct 3899 ATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAAATGGACGGGGTGC 3958
Query 6727 GCCTACACAGGTTTTCGCGCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAG 6786
Sbjct 3959 GCCTACATAGGTTTTCGCGCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAG 4018
Query 6787 TAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTTCGAGCCCCGAACCCGAGCTAG 6846
Sbjct 4019 TAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTTCGAGCCCCGAACCCGAGCTAG 4078
Query 6847 CGGTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGCGGGAGAA 6906
Sbjct 4079 CGGTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGCGGCGGGAGAA 4138
Query 6907 GGTGTGGCAGAGAGGTACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTC 6966
Sbjct 4139 GGTGTGGCAGAGAGGTACCCCTTCTATGGCCAGCTCCTCGGCGAGCAGCTGTCCGCTC 4198
Query 6967 CATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCATAGAGG 7026
Sbjct 4199 CATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCATAGAGG 4258
Query 7027 CTAACCTCCTGTGGAGGCAAGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA 7086
Sbjct 4259 CTAACCTCCTGTGGAGGCAAGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA 4318
Query 7087 AAGTGGTGATTCTGGAAGTCTTGCATCCGCTTGTGGCAGAGGAGATGAGCGGAGGTCT 7146
Sbjct 4319 AAGTGGTGATTCTGGAAGTCTTGCATCCGCTTGTGGCAGAGGAGATGAGCGGAGGTCT 4378
Query 7147 CCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCGCTCTGGG 7206
Sbjct 4379 CCGTACCGCAGAAATTCGCGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCGCTTCTGGG 4438
Query 7207 CGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACAC 7266
Sbjct 4439 CGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACAC 4498
Query 7267 CTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCTCCGCTCCGA 7326

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Sbjct 4499 |CTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCTCCGCCCTCGGA| 4558
Query 7327 |AAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGCCGAGCTTGCCA| 7386
Sbjct 4559 |AAAAGCGTACGGTGGTCTCACCGAATCAACCTACTACTGCCTTGGCCGAGCTTGCCA| 4618
Query 7387 |CCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCT| 7446
Sbjct 4619 |CCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATATGACAACATCCT| 4678
Query 7447 |CTGAGCCCGCCCCCTTCTGGCTG|ccccccGACTCCGACGTTGAGTCCTATTCTTCCATG| 7506
Sbjct 4679 |CTGAGCCCGCCCCCTTCTGGCTGCCCGCCGACTCCGACGTTGAGTCCTATTCTTCCATGC| 4738
Query 7507 |ccccccTGGAGGGGAGCCTGGGGATCCGGAICTACGACGGGTCATGGTCAGCGGTCA| 7566
Sbjct 4739 |CCCCCTTGGAGGGGAGCCTGGGGATCCGGATTACAGCAGCGGTCATGGTCAGCGGTCA| 4798
Query 7567 |GTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGACAGGG| 7626
Sbjct 4799 |GTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATACCTGACAGGG| 4858
Query 7627 |CACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACT| 7686
Sbjct 4859 |CACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACT| 4918
Query 7687 |CGTTGCTACGCCATCACAACTGSGTGTATTCCACCACCTTACGCACTGCTTGGCAAAGGC| 7746
Sbjct 4919 |CGTTGCTACGCCATCACAACTGSGTGTATTCCACCACCTTACGCACTGCTTGGCAAAGGC| 4978
Query 7747 |AGAAGAAAGTCACATTGACAGACTGCAAGTCTTGGACAGCCATTACCAGGACGTGCTCA| 7806
Sbjct 4979 |AGAAGAAAGTCACATTGACAGACTGCAAGTCTTGGACAGCCATTACCAGGACGTGCTCA| 5038
Query 7807 |AGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAAGTGTCTATCCGTAGAGGAAGCTT| 7866
Sbjct 5039 |AGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAAGTGTCTATCCGTAGAGGAAGCTT| 5098
Query 7867 |CGAGCCTGACGCCCCACATTACGCAAAATCCAAGTTTGCTATGAGGGCAAAGACGTCC| 7926
Sbjct 5099 |CGAGCCTGACGCCCCACATTACGCAAAATCCAAGTTTGCTATGAGGGCAAAGACGTCC| 5158
Query 7927 |GTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTCTGGAAG| 7986
Sbjct 5159 |GTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTCTGGAAG| 5218
Query 7987 |ACAGTGTAAACCAATAGACACTACCATCATGGCCAAAGACGAGTTTCTGCGTTACGC| 8046
Sbjct 5219 |ACAGTGTAAACCAATAGACACTATCATCATGGCCAAAGACGAGTCTTCTGCGTTACGC| 5278
Query 8047 |CTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTCCCGGACCTGGGCGTGCGCG| 8106
Sbjct 5279 |CTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTCCCGGACCTGGGCGTGCGCG| 5338
Query 8107 |TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAA| 8166
Sbjct 5339 |TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCCCTGGCCGTGATGGGAA| 5398
Query 8167 |GCTCCTACGGATTCCAATACTACCAAGGACAGCGGGTTGAATTCCTGTCGAAGCGTGGAA| 8226
Sbjct 5399 |GCTCCTACGGATTCCAATACTACCAAGGACAGCGGGTTGAATTCCTGTCGAAGCGTGGAA| 5458
Query 8227 |AGTCCAAGAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTGTGACATCCAGATCA| 8286
Sbjct 5459 |AGTCCAAGAGACCCCGATGGGGTTCCCGTATGATACCCGCTGTTTGTGACATCCAGATCA| 5518
Query 8287 |CTGAGAGCGACATCCGTACGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG| 8346
Sbjct 5519 |CTGAGAGCGACATCCGTACGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG| 5578
Query 8347 |CCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATT| 8406
Sbjct 5579 |CCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATT| 5638
Query 8407 |CAAGGGGGGAAAAGTCCGGCTACCGCAGGTGCCGCGCAGCGCGCTACTGACAACTAGCT| 8466
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Sbjct 5639      |||||
CAAGGGGGGAAAACCTGCGGCTATCGCAGGTGCCGCGGAGCGGCTACTGACAACCTAGCT 5698
Query 8467      GTGGTAACACCCCTCACTTGCTACATCAAGGCCGGGGAGCCGTGTGAGCCGAGGGCTCC 8526
Sbjct 5699      GTGGTAACACCCCTCACTTGCTACATCAAGGCCGGGGAGCCGTGTGAGCCGAGGGCTCC 5758
Query 8527      AGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCAGGGG 8586
Sbjct 5759      AGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCAGGGG 5818
Query 8587      TCCAGGAGGACGCGGCGAGCCTTGAGAGCCTTACGAGGGCTATGACCAGGTACTCCGccc 8646
Sbjct 5819      TCCAGGAGGACGCGGCGAGCCTTGAGAGCCTTACGAGGGCTATGACCAGGTACTCCGCCCC 5878
Query 8647      cccccgggggcccccccaCAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCA 8706
Sbjct 5879      CCCCCGGGACCCCCCAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCA 5938
Query 8707      ACGTGTGTCAGTCGCCACGACGGCGCTGGAAAAGAGGGTCTACTACCTTACCCGTGACCCTA 8766
Sbjct 5939      ACGTGTGTCAGTCGCCACGACGGCGCTGGAAAAGAGGGTCTACTACCTTACCCGTGACCCTA 5998
Query 8767      CAACCCCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTCAATTCTCTGGC 8826
Sbjct 5999      CAACCCCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTCAATTCTCTGGC 6058
Query 8827      TAGGCAACATAATCATGTTTGGCCCCACACTTAGGGCGAGGATGATACCTGATGACCATT 8886
Sbjct 6059      TAGGCAACATAATCATGTTTGGCCCCACACTTAGGGCGAGGATGATACCTGATGACCATT 6118
Query 8887      TCTTTAGCGTCTCCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACG 8946
Sbjct 6119      TCTTTAGCGTCTCCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACG 6178
Query 8947      GAGCCTGCTACTCCATAGAACCACTTGGATCTACCTCCAATCATTCAAAGACTCCATGGCC 9006
Sbjct 6179      GAGCCTGCTACTCCATAGAACCACTTGGATCTACCTCCAATCATTCAAAGACTCCATGGCC 6238
Query 9007      TCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCC 9066
Sbjct 6239      TCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAGTCAATAGGGTGGCCGCATGCC 6298
Query 9067      TCAGAAAACCTTGGGGTCCCGCCCTTGCAGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCG 9126
Sbjct 6299      TCAGAAAACCTTGGGGTCCCGCCCTTGCAGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCG 6358
Query 9127      CTAGGCTTCTGTGCCAGAGGAGCGAGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGG 9186
Sbjct 6359      CTAGGCTTCTGTGCCAGGAGGAGCGAGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGG 6418
Query 9187      CAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGGCTGGACTTGTCCG 9246
Sbjct 6419      CAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGGCTGGACTTGTCCG 6478
Query 9247      GTTGGTTACAGGCTGGCTACAGCGGGGAGACATTATACACGCGTGTCTCATGCCCGCGC 9306
Sbjct 6479      GTTGGTTACAGGCTGGCTACAGCGGGGAGACATTATACACGCGTGTCTCATGCCCGCGC 6538
Query 9307      CCCGCTGTTCTCGGTTTGGCTTACTCTGCTCGCTGCAGGGGTAGGCATCTACCTCTCC 9366
Sbjct 6539      CCCGCTGTTCTCGGTTTGGCTTACTCTGCTCGCTGCAGGGGTAGGCATCTACCTCTCC 6598
Query 9367      CCAACCGATGA 9377
Sbjct 6599      CCAACCGTGA 6609

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>emb|AX663427.1| Sequence 1 from Patent W002088338
Length=6609

Score = 1.188e+04 bits (6435), Expect = 0.0
Identities = 6553/6611 (99%), Gaps = 4/6611 (0%)
Strand=Plus/Plus

Query 2769 CTGGACACGAGGTGGCCGCGCTGCTGTGGCGCGCTTGTCTTGTGCGGTTAATGGCGCTG 2828

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Sbjct 1      |CTGGACACGAGGTGGCCGCGTCGTGTGGCGCGTGTGTTCTTGTGGGTTAATGGCGCTG| 60
Query 2829    |ACTCTGTGCGGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT| 2888
Sbjct 61      |ACTCTGTGACCACATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT| 120
Query 2889    |CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTcccccccTCAACGTCCggggggg| 2948
Sbjct 121     |CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCCGGGGGGGG| 180
Query 2949    |CGCGATGCGGTCATCTTACTCATGTGTGTAGTACACCGACCCTGGTATTTGACATCACC| 3008
Sbjct 181     |CGCGATGCGGTCATCTTACTCATGTGTGTGTACACCGACTCTGGTATTTGACATCACC| 240
Query 3009    |AAACTACTCTTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTCGTTAAAGTC| 3068
Sbjct 241     |AAACTACTCTTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTCGTTAAAGTC| 300
Query 3069    |CCCTACTTCGTGCGCGTTCAAGGCCCTTCCGGATCTGCGCGTAGCGCGGAAGAT-AGC| 3127
Sbjct 301     |CCCTACTTCGTGCGCGTTCAAGGCCCTTCCGGATCTGCGCGTAGCGCGGAAGATGA-C| 359
Query 3128    |CGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT| 3187
Sbjct 360     |CGGAGGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT| 419
Query 3188    |GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAAGGCGTGCAGATCTGGCCGT| 3247
Sbjct 420     |GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAAGGCGTGCAGATCTGGCCGT| 479
Query 3248    |GGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA| 3307
Sbjct 480     |GGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA| 539
Query 3308    |TACCGCGCGTGGCGGTGACATCATCAACGGCTTGGCCGTCTCTGCCCTAGGGGGCAGGA| 3367
Sbjct 540     |TACCGCGCGTGGCGGTGACATCATCAACGGCTTGGCCGTCTCTGCCCTAGGGGGCAGGA| 599
Query 3368    |GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT| 3427
Sbjct 600     |GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT| 659
Query 3428    |CACGGCGTAGCCGACGAGACGAGAGGCCCTCTAGGGTGATATAATCACCAGCCTGACTGG| 3487
Sbjct 660     |CACGGCGTAGCCGACGAGACGAGAGGCCCTCTAGGGTGATATAATCACCAGCCTGACTGG| 719
Query 3488    |CGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCAAAACCTT| 3547
Sbjct 720     |CGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCAAAACCTT| 779
Query 3548    |CTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAAGGGGCGGAACGAGGAC| 3607
Sbjct 780     |CTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAAGGGGCGGAACGAGGAC| 839
Query 3608    |CATCGCATCACCAAGGGTCTGTCAATCCAGATGTATACCAATGTGGACCAAGACCTTGT| 3667
Sbjct 840     |CATCGCATCACCAAGGGTCTGTCAATCCAGATGTATACCAATGTGGACCAAGACCTTGT| 899
Query 3668    |GGGCTGGCCCGCTCTCTCAAGTTTCCGCTCATTTGACACCTTGACTCTGGGCTCTCTCGGA| 3727
Sbjct 900     |GGGCTGGCCCGCTCTCTCAAGTTTCCGCTCATTTGACACCTTGACTCTGGGCTCTCTCGGA| 959
Query 3728    |CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGGCGCGGCGAGGTGATAGCAG| 3787
Sbjct 960     |CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGGCGCGGCGAGGTGATAGCAG| 1019
Query 3788    |GGGTAGCCTGCTTTTCCGCCCGGCCATTTCCTACTTGAAAGGCTCTCGGGGGTCCGCT| 3847
Sbjct 1020    |GGGTAGCCTGCTTTTCCGCCCGGCCATTTCCTACTTAAAGGCTCTCGGGGGTCCGCT| 1079
Query 3848    |GTTGTGCCCCGCGGGACACGCCGTGGGCTATTACGGGCGCGGTGTGCACCCGTGGAGT| 3907
Sbjct 1080    |GTTGTGCCCCGCGGGACACGCCGTGGGCTATTACGGGCGCGGTGTGCACCCGTGGAGT| 1139
Query 3908    |GGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACACCATGAGATCCCGGCT| 3967

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Sbjct	1140	GGCCAAGCGCGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGATCCCGGT	1199
Query	3968	GTTACGGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCAGGTGGCCCACTGCA	4027
Sbjct	1200	GTTACGGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCAGGTGGCCCACTGCA	1259
Query	4028	TGCTCCCAACGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTA	4087
Sbjct	1260	TGCTCCCAACGGCAGTGGAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTA	1319
Query	4088	CAAGGTGTTTGGTGTCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	4147
Sbjct	1320	CAAGGTGTTTGGTGTCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	1379
Query	4148	CAAGGCCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCACATGGCAG	4207
Sbjct	1380	CAAGGCCCCATGGGGTCAGTCTAATATCAGGACCGGGGTGAGAACAAATTACCACATGGCAG	1439
Query	4208	CCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCGCAGGGCGGGTGCTCAGGAGGTGC	4267
Sbjct	1440	CCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCGCAGGGCGGGTGCTCAGGAGGCGC	1499
Query	4268	TTATGACATAATAAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCACTTTGGGCAT	4327
Sbjct	1500	TTATGACATAATAAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCACTTTGGGCAT	1559
Query	4328	CGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGC	4387
Sbjct	1560	CGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGATTGGTTGTGCTCGCCACTGC	1619
Query	4388	TACCCCTCCGGGCTCCGTCACGTGTGCCATCTTAACATCGAGGAGGTTGCTCTGTCCAC	4447
Sbjct	1620	TACCCCTCCGGGCTCCGTCAGTGTGCCATCTTAACATCGAGGAGGTTGCTCTGTCCAC	1679
Query	4448	CACCGAGAGATCCCTTTT-TACGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGAA	4506
Sbjct	1680	CACCGAGAGATCCCTTTT-TACGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGAA	1738
Query	4507	GACATCTCATCTTCTGCCACTCAAAGAGAAGTGCAGCAGCTCGCCGCGAAGCTGGTCG	4566
Sbjct	1739	GACATCTCATCTTCTGTCACCTCAAAGAGAAGTGCAGCAGCTCGCCGCGAAGCTGGTCG	1798
Query	4567	CATTGGGCATCAATGCCGTGGGCTACTACCGCGGCTTTGACGTGTCTGTCAATCCGACCA	4626
Sbjct	1799	CATTGGGCATCAATGCCGTGGGCTACTACCGCGGACTTGACGTGTCTGTCAATCCGACCA	1858
Query	4627	GCGGCGATGTTGTCGTGTCGTGCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	4686
Sbjct	1859	GCGGCGATGTTGTCGTGTCGTGCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	1918
Query	4687	ACTCTGTGATAGACTGCAACACGTGTGTCTACTCAGACAGTCGATTTACGCTTGACCTTA	4746
Sbjct	1919	ACTCTGTGATAGACTGCAACACGTGTGTCTACTCAGACAGTCGATTTACGCTTGACCTTA	1978
Query	4747	CCTTTACCATTGAGACAACACGCTFCCCCAGGATGCTGTCTCCAGGACTCAAGCCCGGG	4806
Sbjct	1979	CCTTTACCATTGAGACAACACGCTFCCCCAGGATGCTGTCTCCAGGACTCAGCCCGGG	2038
Query	4807	GCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGGGAGCGCCCT	4866
Sbjct	2039	GCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTGTGGCACCGGGGAGCGCCCT	2098
Query	4867	CCGCGATGTTTGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	4926
Sbjct	2099	CCGCGATGTTTGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	2158
Query	4927	AGCTCAGCGCCGCGAGACTACAGTTAGGCTACGAGCTACATGAACACCCGGGGCTTC	4986
Sbjct	2159	AGCTCATGCCCGGAGACTACAGTTAGGCTACGAGCTACATGAACACCCGGGGCTTC	2218
Query	4987	CCGTGTGCCAGGACCTCTTGAATTTTGGAGGGGCTCTTACGGGCTTACTCATATAG	5046
Sbjct	2219	CCGTGTGCCAGGACCTCTTGAATTTTGGAGGGGCTCTTACGGGCTTACCACATATAG	2278
Query	5047	ATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACCTGGTAGCGT	5109

Sbjct	2279	 ATGCCCACTTTCTATCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGT	2338
Query	5107	 ACCAAGCCACCGTGTGCGCTAGGGCTCAAGGCCCTCCCCCATCGTGGGACCAGATGTGGA	5166
Sbjct	2339	 ACCAAGCCACCGTGTGCGCTAGGGCTCAAGGCCCTCCCCCATCGTGGGACCAGATGTGGA	2398
Query	5167	 AGTGTTTGATCCGCCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	5226
Sbjct	2399	 AGTGTTTGATCCGCCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	2458
Query	5227	 GCGCTGTTTCAGAAATGAAGTCACCCCTGACGCACCCCAATCACCAAATACATCATGACATGCA	5286
Sbjct	2459	 GCGCTGTTTCAGAAATGAAGTCACCCCTGACGCACCCCAATCACCAAATACATCATGACATGCA	2518
Query	5287	 TGTCGGCCGACCTTGGAGTTCGTACGAGCACCTGGGTGCTCGTTGGCGGCTCTGGCTG	5346
Sbjct	2519	 TGTCGGCCGACCTTGGAGTTCGTACGAGCACCTGGGTGCTCGTTGGCGGCTCTGGCTG	2578
Query	5347	 CTCTGGCCGCGTATTGCCGTGCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGT	5406
Sbjct	2579	 CTCTGGCCGCGTATTGCCGTGCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGT	2638
Query	5407	 CCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTTCGATGAGATGG	5466
Sbjct	2639	 CCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTTCGATGAGATGG	2698
Query	5467	 AAGAGTGTCTTCAGCACTTACCGTACATCGAGCAAGGATGATGTCTGCTGAGCAGTTCA	5526
Sbjct	2699	 AAGAGTGTCTTCAGCACTTACCGTACATCGAGCAAGGATGATGTCTGCTGAGCAGTTCA	2758
Query	5527	 AGCAGAAGGCCCTTCGGCCTCTCGAGACCGCGTCCCGCCATGCAAGGTTATCACCCCTG	5586
Sbjct	2759	 AGCAGAAGGCCCTTCGGCCTCTCGAGACCGCGTCCCGCCATGCAAGGTTATCACCCCTG	2818
Query	5587	 CTGTCCAGACCACTGGCAGAACTCGAGGTCTTTTGGGCGAAGACATGTGGAATTTC	5646
Sbjct	2819	 CTGTCCAGACCACTGGCAGAACTCGAGGTCTTTTGGGCGAAGACATGTGGAATTTC	2878
Query	5647	 TCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCGCCATTGCTT	5706
Sbjct	2879	 TCAGTGGGATACAATATTGGCGGGCCTGTCAACGCTGCCTGGTAACCCGCCATTGCTT	2938
Query	5707	 CATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCACTGGCCAAACCTCCTCT	5766
Sbjct	2939	 CATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCACTGGCCAAACCTCCTCT	2998
Query	5767	 TCAACATATTggggggTGGGTGGCTGCCAGCTCGCCGCCCGGCGCCGCTACTGCCT	5826
Sbjct	2999	 TCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGGCGCCGCTACCGCCT	3058
Query	5827	 TTGTGGGTGCTGGCCTAGCTGGCGCGCCATCGGCAGCGTTGGACTGGGGAAGTCTCTCG	5886
Sbjct	3059	 TTGTGGGTGCTGGCCTAGCTGGCGCGCCATCGGCAGCGTTGGACTGGGGAAGTCTCTCG	3118
Query	5887	 TGGACATTCTTGCAAGGTATGGCGCGGGCGTGGCGGGAGCTCTTTAGCATTCAAGATCA	5946
Sbjct	3119	 TGGACATTCTTGCAAGGTATGGCGCGGGCGTGGCGGGAGCTCTTTAGCATTCAAGATCA	3178
Query	5947	 TGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCGCCATCTCTCGC	6006
Sbjct	3179	 TGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTACCGCCATCTCTCGC	3238
Query	6007	 CTGAGCCCTTTGAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGACGCTGGGCCCGG	6066
Sbjct	3239	 CTGAGCCCTTTGAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGACGCTGGGCCCGG	3298
Query	6067	 GCGAGGGGGCAGTGCAATGGATGAACCGCTAATAGCTTTCGCTCCCGGGGGGAACCATG	6126
Sbjct	3299	 GCGAGGGGGCAGTGCAATGGATGAACCGCTAATAGCTTTCGCTCCCGGGGGGAACCATG	3358
Query	6127	 TTTCCCCCAGCAGCTACGTGCCGGAGAGCGATGCAAGCGCCCGCTCACTGCCATACTCA	6186
Sbjct	3359	 TTTCCCCCAGCAGCTACGTGCCGGAGAGCGATGCAAGCGCCCGCTCACTGCCATACTCA	3418
Query	6187	 GCAGCCTCACTGTAACCAAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTA	6246

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Sbjct 3419      |||
GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTACATCAGTGGATAAGCTCGGAGTGTGA 3478
Query 6247      |||
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Sbjct 3479      |||
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Query 6307      |||
GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCTGGGATTCCCTTTG 6366
Sbjct 3539      |||
GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCTGGGATTCCCTTTG 3598
Query 6367      |||
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Sbjct 3599      |||
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Query 6427      |||
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Sbjct 3659      |||
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Query 6487      |||
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Sbjct 3719      |||
CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCAAGGGCC 3778
Query 6547      |||
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Sbjct 3779      |||
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Query 6607      |||
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Sbjct 3839      |||
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Query 6667      |||
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Sbjct 3899      |||
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Query 6727      |||
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Sbjct 3959      |||
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Query 6787      |||
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Sbjct 4019      |||
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Sbjct 4079      |||
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Query 6907      |||
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Sbjct 4139      |||
GGTTGGCGAGAGGGGTACCCCTTCTATGGCCAGCTCCTCGGCGAGCAGCTGTCCGCTC 4198
Query 6967      |||
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Sbjct 4199      |||
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Query 7027      |||
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Sbjct 4319      |||
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Query 7147      |||
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Sbjct 4379      |||
CCGTACCTGCAGAAATCTCGGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCGCTTGGG 4438
Query 7207      |||
CGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCA 7266
Sbjct 4439      |||
CGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCA 4498
Query 7267      |||
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Sbjct 4499      |||
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Query 7327      |||
AAAAGCGTACGGTGGTCTCACCAGATCAACCTATCTACTGCCTTGCCGAGCTTGCCA 7386
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Sbjct 4559 AAAAGCGTACGGTGGTCTCACCAGATCAACCTACCTACTGCTTGGCCGAGCTTGCCA 4618
Query 7387 CCAAAGATTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGCAATACGACACATCTCT 7446
Sbjct 4619 CCAAAGATTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGCAATATGACACATCTCT 4678
Query 7447 CTGAGCCCGCCCTTCTGGCTGCGGCGGCTCCGACGTTAGTCTTATCTTCATGCG 7506
Sbjct 4679 CTGAGCCCGCCCTTCTGGCTGCGGCGGCTCCGACGTTAGTCTTATCTTCATGCG 4738
Query 7507 CCGGCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGGTCGACGGTCA 7566
Sbjct 4739 CCGGCTGGAGGGGAGCCTGGGGATCCGGATTTCCAGCGACGGGTATGGTCGACGGTCA 4798
Query 7567 GTAGTGGGGCGCACCGGAAGATGTCGTGTGCTGCTCAATGCTTATCTTCCTGGACGGG 7626
Sbjct 4799 GTAGTGGGGCGCACCGGAAGATGTCGTGTGCTGCTCAATGCTTATCTTCCTGGACGGG 4858
Query 7627 CACTCGTCACCCGTCGCGTCCGGAAGAACAACAACTGCCCATCAACGCCTGAGCAACT 7686
Sbjct 4859 CACTCGTCACCCGTCGCGTCCGGAAGAACAACAACTGCCCATCAACGCCTGAGCAACT 4918
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Sbjct 4979 AGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACGCCATTACAGGAGCTGCTCA 5038
Query 7807 AGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGTCTATCCGTAGAGGAAGCT 7866
Sbjct 5039 AGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGTCTATCCGTAGAGGAAGCT 5098
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Sbjct 5099 GCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGCTATGAGGGCAAAGAGCTGC 5158
Query 7927 GTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTCTGGAAG 7986
Sbjct 5159 GTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTCTGGAAG 5218
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Sbjct 5219 ACAGTGTAAACCAATAGACACTATCATCATGGCCAAAGACGAGTTTCTGCGTTACGC 5278
Query 8047 CTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGCGTGCGG 8106
Sbjct 5279 CTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGCGTGCGG 5338
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Query 8167 GCTCCTACGGATTCCAATACTACCCAGGACAGCGGGTTGAATTCCTCGTGAAGCGTGA 8226
Sbjct 5399 GCTCCTACGGATTCCAATACTACCCAGGACAGCGGGTTGAATTCCTCGTGAAGCGTGA 5458
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Sbjct 5459 AGTCCAAGAAGACCCCGATGGGGTCTCGTATGATACCCGCTGTTTGTACTCCACAGTCA 5518
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Sbjct 5519 CTGAGAGCGACATCCGTACGAGGAGGCAATTTACCAATGTGTGACCTGGACCCCAAG 5578
Query 8347 CCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATT 8406
Sbjct 5579 CCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATT 5638
Query 8407 CAAGGGGGGAAACTGCGGCTACCGCAGGTGCGCGCGAGCGGCTACTGACAACTAGCT 8466
Sbjct 5639 CAAGGGGGGAAACTGCGGCTACCGCAGGTGCGCGCGAGCGGCTACTGACAACTAGCT 5698
Query 8467 GTGGTAACACCTCACTTGCTACATCAAGGCCGGGACGCTGTGAGCCGACGGGCTCC 8526

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Sbjct 5699 GTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCCGTCGAGCCGAGGGCTCC 5758
Query 8527 AGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCAGGGG 8586
Sbjct 5759 AGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCAGGGG 5818
Query 8587 TCCAGGAGGACGCGGCAGCCTGAGAGCCTTACGAGGGCTATGACCAGGTACTCCGCC 8646
Sbjct 5819 TCCAGGAGGACGCGGCAGCCTGAGAGCCTTACGAGGGCTATGACCAGGTACTCCGCC 5878
Query 8647 cccccgggggccccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCA 8706
Sbjct 5879 CCCCCGGGAGCCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCA 5938
Query 8707 ACGTGTCTAGTCCGCCACGACGGCGCTGGAAGAGGGTCTACTACCTTACCCGTGACCTTA 8766
Sbjct 5939 ACGTGTCTAGTCCGCCACGACGGCGCTGGAAGAGGGTCTACTACCTTACCCGTGACCTTA 5998
Query 8767 CAACCCCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTCAATTCTCTGGC 8826
Sbjct 5999 CAACCCCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTCAATTCTCTGGC 6058
Query 8827 TAGGCAACATAATCATGTTTGCCCCACACTGTGGCGAGGATGATACTGATGACCATT 8886
Sbjct 6059 TAGGCAACATAATCATGTTTGCCCCACACTGTGGCGAGGATGATACTGATGACCATT 6118
Query 8887 TCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGTGAGATCTACG 8946
Sbjct 6119 TCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGTGAGATCTACG 6178
Query 8947 GAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCAATCAAGAGCTCCATGGCC 9006
Sbjct 6179 GAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCAATCAAGAGCTCCATGGCC 6238
Query 9007 TCAGCGCATTTTCACTTCCACAGTTACTCTCCAGGTGAAATCAATAGGTTGGCCGCATGCC 9066
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Sbjct 6299 TCAGAAAATTTGGGGTCCCGCCCTTGCAGGCTTGGAGACACCGGGCCCGGAGCGTCCGG 6358
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Sbjct 6359 CTAGGCTTCTGTCCAGGGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGG 6418
Query 9187 CAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGGCTGGACTTGTCCG 9246
Sbjct 6419 CAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGGCTGGACTTGTCCG 6478
Query 9247 GTTGGTTACAGGCTGGCTACAGCGGGGAGACATTTATACAGCGTGTCTCATGCCCGGC 9306
Sbjct 6479 GTTGGTTACAGGCTGGCTACAGCGGGGAGACATTTATACAGCGTGTCTCATGCCCGGC 6538
Query 9307 CCGCTGGTTCTGGTTTTTGCTACTCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCC 9366
Sbjct 6539 CCGCTGGTTCTGGTTTTTGCTACTCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCC 6598
Query 9367 CCAACCGATGA 9377
Sbjct 6599 CCAACCGTGA 6609

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>dbj|DI052976.1| Hepatitis C virus epitope
Length=7310

Score = 1.170e+04 bits (6335), Expect = 0.0
Identities = 6992/7317 (95%), Gaps = 14/7317 (0%)
Strand=Plus/Plus

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Query 1690 CAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCCTTACCGATTTTGCCAGGGCTGGG 1749
Sbjct 1 CAGGCTGTCTGAGAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACAGGGCTGGG 60
Query 1750 GTCCATACGTTATGCCAACGGAAGCGGCTCGACGAACGCCCTACTGTGGCACTACC 1809

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Sbjct	61	GCCCTATCAGTTATGCCAACGGAAGCGGCCCGACGACGCCCCCTACTGCTGGCACTACC	120
Query	1810	CTCCAAAGACCTTGTGGCATTTGTGCCCGCAAGAGCGTGTGTGCCCGGTATATTGCTTCA	1869
Sbjct	121	CCCCAAACCTTGGCGTATTGTGCCCGCAAGAGTGTGTGTGCCGTATATTGCTTCA	180
Query	1870	CTCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTGCGGGCGCGCTACCTACAGCTGGG	1929
Sbjct	181	CTCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTGCGGGCGCGCCACCTACAGCTGGG	240
Query	1930	GTGCAATGATACGGATGCTTTCGTCTTAACAACACGAGCCACCGCTGGGCAATTGGT	1989
Sbjct	241	GTGAAATGATACGGAGCTCTTCGTCTTAACAATACGAGCCACCGCTGGGCAATTGGT	300
Query	1990	TCGGTTGTACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGCCCTTTGTG	2049
Sbjct	301	TCGGTTGTACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGCTCTTTGTG	360
Query	2050	TCATCGGAGGGGTGGGCAACACACCTTGTCTTGCCTTGCCTTCCGCAACATC	2109
Sbjct	361	TCATCGGAGGGGTGGGCAACACACCTTGTCTTGCCTTGCCTTCCGCAAGATC	420
Query	2110	CGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGTCG	2169
Sbjct	421	CGGAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGTGCTTGTGTCG	480
Query	2170	ACTACCCGTATAGGCTTTGGCACTATCCTTTGTACCATCAATTACACCATATTCAAAGTCA	2229
Sbjct	481	ACTACCCGTATAGGCTTTGGCATATATCCTTTGTACCATCAACTACACCATATTAAAAATCA	540
Query	2230	GGATGTACGTGGGAGGGGTGAGCAGCAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGGC	2289
Sbjct	541	GGATGTACGTGGGAGGGGTGAGCAGCAGGCTGGAAGCTGCTCTCAACTGGACGCGGGGGC	600
Query	2290	AACGCTGTGATCTGGAAGACAGGACAGGTCGAGCTCAGCCGCTGCTGCTGTCTACCA	2349
Sbjct	601	AACGTTGCGATCTGGAAGACAGGACAGGTCGAGCTCAGCCGTTACTGCTGACCACTA	660
Query	2350	CACAGTGGCAGTGCTCTCCGTGTTCTTTCAGACCTCGCAGCTTTGTCCACCGGCCTCA	2409
Sbjct	661	CACAGTGGCAGTGCTCTCCGTGTTCTTTCACAACCTACCAGCTTTGTCCACCGGCCTCA	720
Query	2410	TCCACCTCCACCAGAACATTTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCG	2469
Sbjct	721	TCCACCTCCACCAGAACATTTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCG	780
Query	2470	CGTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTCTGTTCTCTGCTTGCAGACGCG	2529
Sbjct	781	CGTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCTCTGTTCTGCTTGCAGACGCGC	840
Query	2530	CGCTCTGCTCTGCTTTGTGGATGATGTTACTCATATCCCAAGCGGAGCGGCTTTGAGA	2589
Sbjct	841	CGCTCTGCTCTGCTTTGTGGATGATGCTACTCATATCCCAAGCGGAGCGGCTTTGAGA	900
Query	2590	ACCTCGTAATACTCAATGCAGATCCCTGGCCGGGACGACGGTCTTTGTGCTCTTCCTCG	2649
Sbjct	901	ACCTCGTAATACTCAATGCAGATCCCTGGCCGGGACGACGGTCTTTGTATCCTTCCTCG	960
Query	2650	TGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGCTACGCC	2709
Sbjct	961	TGTTCTTCTGCTTTGCAATGGATTATGAAGGGTAAGTGGGTGCCCGGAGCGGCTACACCT	1020
Query	2710	TCTACGGGATGTGGCCTCTCCCTCTGCTCCTGCTGGCGTGGCTCAGCGGGCATACGCAC	2769
Sbjct	1021	TCTACGGGATGTGGCCTCTCCCTCTGCTCCTGTTGGCGTGGCCAGCGGGCGTACGCGC	1080
Query	2770	TGGACACGAGGTGGCCGCGTGTGTGGCGCGTGTGTTCTTGTCGGGTTAATGGCGCTGA	2829
Sbjct	1081	TGGACACGAGGTGGCCGCGTGTGTGGCGCGTGTGTTCTTGTCGGGTTGATGCGCGCTGA	1140
Query	2830	CTCTGTGCGCATATTACAAGCGCTATACAGCTGGTGCTGATGTGGTGCTCAGTATTTTC	2889
Sbjct	1141	CTCTGTGCGCATATTACAAGCGCTATACAGCTGGTGCTGTTGGTGCTCAGTATTTTC	1200
Query	2890	TGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGGGCTCAACGTCGGGGGGC	2949

Sbjct	1201	TGACCAGAGTGAAGCGCAACTGCACGTGTGGATTCCCCCCCCTCAACGTCGAGGGGGGGC	1260
Query	2950	GCAGTCCGCGTCATCTTACTCATGTGTG-TAGTACACCGCACTCGTATTGACATCACC	3008
Sbjct	1261	GCAGACCGCGTCATCTTACTCATGTGTGT-GTACACCGCATCTGGTATTGACATCACC	1319
Query	3009	AAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTC	3068
Sbjct	1320	AAATTGCTGCTGGCCGCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTA	1379
Query	3069	CCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGC	3127
Sbjct	1380	CCCTACTTTGTGCGCGTCCAAGGCCTTCTCCGGTTCGCGCGTTAGCGCGGAAGATGATC	1439
Query	3128	CGGAGGTCATTACGTGCAAAATGCCCATCATCAAGTTAGGGGCGCTTACTGGCACTATGT	3187
Sbjct	1440	-GGAGGCAATTACGTGCAAAATGGTCATCATTAAAGTTAGGGGCGCTTACTGGCACTATGT	1498
Query	3188	GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAAGCGCTCGGAGATCTGGCCGT	3247
Sbjct	1499	TTATAACCATCTCACTCCTCTTCGGGACTGGGCGCACAAAGCGCTTCGAGATCTGGCCGT	1558
Query	3248	GGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATACGTTGGGGGGGAGA	3307
Sbjct	1559	GGCTGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATACGTTGGGGGGGAGA	1618
Query	3308	TACCGCCGCGTGGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGA	3367
Sbjct	1619	TACCGCCGCGTGGCGGTGACATCATCAACGGCTTGCCCTGTTTCGCCCGCAGGGGCCGGGA	1678
Query	3368	GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT	3427
Sbjct	1679	GATACTGCTTGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT	1738
Query	3428	CACGGCTGACGCCAGCAGACGAGGCGCTCTTAGGGTGTATAATCAGCCGTCGACTGG	3487
Sbjct	1739	CACGGCGTACGCCAGCAGACAGAGGGCGCTCTTAGGGTGCATAATCACCAGCCTAACTGG	1798
Query	3488	CCGGGACAAAAACCAAGTGGAGGGTGAGGTCAGATCTGTGCAACTGCTACCCAAACCTT	3547
Sbjct	1799	CCGGGACAAAAACCAAGTGGAGGGTGAGGTCAGATTGTGCAACTGCTGCCAAACCTT	1858
Query	3548	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGCGCGAACGAGGAC	3607
Sbjct	1859	CCTGGCAACGTGCATCAATGGGGTGTCTGGACTGTCTACCACGGGCGCGAACGAGGAC	1918
Query	3608	CATCGCATCACCCAAAGGTCCTGTATCAGATGTATACCAATGTGGACCAAGACCTTGT	3667
Sbjct	1919	CATCGCGTCACCCAAAGGTCCTGTATCAGATGTATACCAATGTAGACCAAGACCTTGT	1978
Query	3668	GGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCTTGTAACCTGCGGCTCCTCGGA	3727
Sbjct	1979	GGGCTGGCCCGCTCCGCAAGGTAGCCGCTCATTGACACCTTGCACTTGGCGCTCCTCGGA	2038
Query	3728	CCTTTACCTTGGTCACGAGGCACGCCGATGTTCATTCCCGTGGCCGCGCGAGGTGATAGCAG	3787
Sbjct	2039	CCTTTACCTTGGTCACGAGGCACGCCGATGTTCATTCCCGTGGCCGCGCGGGTGATAGCAG	2098
Query	3788	GGGTAGCCTGCTTTCGCCCCGCGCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCT	3847
Sbjct	2099	GGGCAGCCTGCTGTGCCCCGCGCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCT	2158
Query	3848	GTGTGTGCCCCGCGGGACACGCCGTGGGCCTATTACGGGCGCGGTGTGACCCCGTGGAGT	3907
Sbjct	2159	GTGTGTGCCCCGCGGGGACACGCCGTGGGCATATTAGGGCGCGGTGTGACCCCGTGGAGT	2218
Query	3908	GGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCAGGGACAACCATGAGATCCCCGGT	3967
Sbjct	2219	GGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACATGAGACCAACCATGAGGTCCCGGT	2278
Query	3968	GTTACCGCAACTCCTCTCCACAGCATGTCGCCAGAGCTTCCAGTGGGCCCACTTGCA	4027
Sbjct	2279	GTTACCGGATAACTCCTCTCCACAGTAGTGCCCAAGAGCTTCCAGTGGGCTCACTTCCA	2338
Query	4028	TGCTCCCAACCGGACGCGGTAAAGAGACCAAGGTCGCCGCTGCGTACGACGCCAGGGCTA	4087

Sbjct	2339		TGCTCCACAGGCAGCGGCAAAAGCACCAAGTCCCGGCTGCATATGCAGCTCAGGGCTA	2398
Query	4088		CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	4147
Sbjct	2399		TAAGGTGCTAGTACTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTC	2458
Query	4148		CAAGGCCATCGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCACTGGCAG	4207
Sbjct	2459		CAAGGCTCATGGGATCGATCCTAACATCAGGACCGGGGTGAGAACAAATTACCACTGGCAG	2518
Query	4208		CCCCATCAGCTACTCCACCTACGGCAAGTTCCCTTCCGACCGCGGGTGCTCAGGAGGTGC	4267
Sbjct	2519		CCCCATCAGCTACTCCACCTACGGCAAGTTCCCTTCCGACCGCGGGTGCTCAGGAGGGCCG	2578
Query	4268		TTATGACATAAATAATTGTGACGAGTGCCACTCCAGGATGCCACATCTTTGGGCAT	4327
Sbjct	2579		TTATGACATAAATAATTGTGACGAGTGCCACTCCAGGATGCCACATCTTTGGGCAT	2638
Query	4328		CGGCACGTGCTTTGACCAAGCAGAGACTCGGGGGCGAGACTGGTTGTGCTCGCCACTGC	4387
Sbjct	2639		CGGCACGTGCTTTGACCAAGCAGAGACTCGGGGGCGAGACTGGTTGTGCTCGCCACTGC	2698
Query	4388		TACCCCTCCGGGCTCCGTCACGTGTGTCCCATCCTAACATCGAGGAGGTGTGCTGTCCAC	4447
Sbjct	2699		TACCCCTCCGGGCTCCGTCACGTGTGTCCCATCCTAACATCGAGGAGGTGTGCTGTCCAC	2758
Query	4448		CACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAG	4507
Sbjct	2759		CACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGGAG	2818
Query	4508		ACATCTCATCTTCTGCGCACTCAAAGAAGAAGTGCAGCAGCTCGCCGCGAAGCTGGTCGC	4567
Sbjct	2819		ACATCTCATCTTCTGTCATTCAAAGAAGAAGTGCAGCAGCTCGCCGCGAAGCTGGTCGC	2878
Query	4568		ATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGAGTGCTGTGTCATCCGACCAG	4627
Sbjct	2879		ATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGAGTGCTGTGTCATCCGACCAG	2938
Query	4628		CGCGCATGTTGTCGTGCTGCGACCGATGCTCTCATGACTGGCTTTACCGGCGCACTTCGA	4687
Sbjct	2939		CGCGCATGTTGTCGTGCTGCGAACCGATGCCCTCATGACCGGCTATACCGGCGCACTTCGA	2998
Query	4688		CTCTGTGATAGACTGCAACACGTTGTGCTACTCAGACAGTCGATTTACGCCCTTGACCTTAC	4747
Sbjct	2999		CTCGGTGATAGACTGCAATACGTTGTGCTACCCAGACAGTCGATTTACGCCCTTGACCTTAC	3058
Query	4748		CTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGG	4807
Sbjct	3059		CTTTACCAATTGAGACAATACGCTCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGG	3118
Query	4808		CAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTTGGCACCGGGGAGCGCCCTC	4867
Sbjct	3119		CAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTGTTGGCACCGGGGAGCGCCCTC	3178
Query	4868		CGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGA	4927
Sbjct	3179		CGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGAGGCTGTGCTTGGTATGA	3238
Query	4928		GCTCAGCGCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCC	4987
Sbjct	3239		GCTCAGCGCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCC	3298
Query	4988		CGTGTGCCAGGACCATCTTGAAATTTGGGAGGGCGTCTTTACGGGCTTCACTCATATAGA	5047
Sbjct	3299		CGTGTGCCAGGACCATCTTGAAATTTGGGAGGGCGTCTTTACAGGCTTCACTCATATAGA	3358
Query	5048		TGCCCACTTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTTCCCTTACCTGGTAGCGTA	5107
Sbjct	3359		TGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTTCCCTTACCTGGTAGCGTA	3418
Query	5108		CCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCATGATGTGGAA	5167
Sbjct	3419		CCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCATGATGTGGAA	3478
Query	5168		GTGTTTGATCCGCCTTAAACCCACCTCCATGGGCAACACCCCTGTCTATACAGACTGGG	5227

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Sbjct  3479  |TGT|T|T|G|A|T|T|C|G|C|C|T|C|A|G|C|C|C|A|C|C|C|T|C|C|A|T|G|G|G|C|C|A|A|C|C|C|T|G|C|T|A|T|A|C|A|G|A|C|T|G|G| 3538
Query  5228  |C|G|C|T|G|T|T|C|A|G|A|T|G|A|A|G|T|C|A|C|C|C|T|G|A|C|G|C|A|C|C|A|A|T|C|A|C|A|A|A|T|A|C|A|T|G|A|C|A|T|G|C|A|T| 5287
Sbjct  3539  |C|G|C|T|G|T|T|C|A|G|A|T|G|A|A|T|C|A|C|C|C|T|G|A|C|G|C|A|C|C|A|G|T|C|A|C|A|A|A|T|A|C|A|T|G|A|C|A|T|G|C|A|T| 3598
Query  5288  |G|T|C|G|G|C|C|G|A|C|T|G|G|A|G|G|T|C|G|T|C|A|C|G|A|G|A|C|C|T|G|G|G|T|G|C|T|C|G|T|G|G|C|G|G|C|T|C|T|G|G|C|T|G|C| 5347
Sbjct  3599  |G|T|C|G|G|C|C|G|A|C|T|G|G|A|G|G|T|C|G|T|C|A|C|G|A|G|A|C|C|T|G|G|G|T|G|C|T|C|G|T|G|G|C|G|G|C|T|C|T|G|G|C|T|G|C| 3658
Query  5348  |T|C|T|G|G|C|C|G|C|T|A|T|T|G|C|C|T|G|T|C|A|A|C|A|G|G|T|G|C|G|T|G|G|T|C|A|T|A|G|T|G|G|G|C|A|G|G|A|T|C|G|T|C|T|T|G|T|C| 5407
Sbjct  3659  |T|T|T|G|G|C|C|G|C|G|T|A|T|T|G|C|C|T|G|T|C|A|A|C|A|G|G|T|G|C|G|T|G|G|T|C|A|T|A|G|T|G|G|G|C|A|G|G|G|T|G|C|T|T|T|G|T|C| 3718
Query  5408  |C|G|G|G|A|A|G|C|C|G|C|A|A|T|A|T|A|C|C|T|G|A|C|A|G|G|G|A|G|G|T|T|C|T|C|T|A|C|C|A|G|G|T|C|G|A|T|G|A|G|A|T|G|G| 5466
Sbjct  3719  |C|G|G|G|A|A|G|C|C|G|C|A|A|T|A|C|C|T|G|A|C|A|G|G|G|A|G|T|C|C|T|C|T|A|C|C|G|A|G|A|G|T|C|G|A|T|G|A|G|A|T|G|G| 3777
Query  5467  |A|A|G|A|G|T|G|C|T|C|A|G|A|C|T|T|A|C|C|G|T|A|C|A|T|C|G|A|G|C|A|A|G|G|G|A|T|G|A|T|G|C|T|C|G|C|T|G|A|G|C|A|G|T|T|C|A| 5526
Sbjct  3778  |A|A|G|A|G|T|G|C|T|C|A|G|A|C|T|T|A|C|C|G|T|A|C|A|T|C|G|A|G|C|A|A|G|G|G|A|T|G|A|T|G|C|G|C|G|A|G|C|A|G|T|T|C|A| 3837
Query  5527  |A|G|C|A|G|A|A|G|G|C|C|T|C|G|G|C|C|T|C|T|G|C|A|G|A|C|C|G|C|T|C|C|C|C|C|A|T|G|C|A|G|G|T|T|A|T|A|C|C|C|C|T|G| 5586
Sbjct  3838  |A|G|C|A|G|A|A|G|G|C|C|T|C|G|G|C|C|T|C|T|G|C|A|G|A|C|C|G|C|T|C|C|C|G|T|C|A|G|G|C|A|G|G|T|A|T|C|G|C|C|C|T|G| 3897
Query  5587  |C|T|G|T|C|C|A|G|A|C|A|A|C|T|G|G|C|A|G|A|A|A|C|T|C|G|A|G|G|T|C|T|T|T|G|G|G|C|G|A|G|C|A|C|A|T|G|T|G|G|A|A|T|T|C|A| 5646
Sbjct  3898  |C|T|G|T|C|C|A|G|A|C|A|A|C|T|G|G|C|A|A|A|A|A|C|T|C|G|A|G|A|C|T|T|C|T|G|G|G|C|G|A|G|C|A|T|A|T|G|T|G|A|A|C|T|T|C|A| 3957
Query  5647  |T|C|A|G|T|G|G|G|A|T|A|C|A|A|T|A|C|T|T|G|G|C|G|G|C|C|T|G|T|C|A|A|C|G|T|G|C|T|G|G|T|A|A|C|C|C|G|C|C|A|T|T|G|C|T| 5706
Sbjct  3958  |T|C|A|G|T|G|G|G|A|T|A|C|A|A|T|A|C|T|T|G|G|C|G|G|C|C|T|G|T|C|A|A|C|G|T|G|C|T|G|G|T|A|A|C|C|C|G|C|C|A|T|T|G|C|T| 4017
Query  5707  |C|A|T|T|G|A|T|G|G|C|T|T|T|A|C|A|G|T|G|C|C|G|T|C|A|C|A|G|C|C|C|A|T|A|A|C|C|A|C|T|G|G|C|A|A|A|C|C|T|C|C|T|C|T| 5766
Sbjct  4018  |C|A|T|T|G|A|T|G|G|C|T|T|T|A|C|A|G|T|G|C|T|G|T|C|A|C|A|G|C|C|C|A|T|A|A|C|C|A|C|T|A|G|C|A|A|A|C|C|T|C|C|T|C|T| 4077
Query  5767  |T|C|A|A|C|A|T|A|T|T|G|G|G|G|G|T|G|G|G|T|G|G|T|G|C|C|C|A|G|C|T|C|G|C|G|C|C|C|C|G|T|G|C|C|G|C|T|A|C|T|G|C|C|T| 5826
Sbjct  4078  |T|C|A|A|C|A|T|A|T|T|G|G|G|G|G|G|T|G|G|T|G|G|T|G|C|C|C|A|G|C|T|C|G|C|G|C|C|C|C|G|T|G|C|C|G|C|T|A|C|T|G|C|C|T| 4137
Query  5827  |T|T|G|T|G|G|T|G|T|G|G|C|T|A|G|T|G|G|C|G|C|C|C|C|A|T|C|G|G|C|A|G|C|G|T|T|G|G|A|C|T|G|G|G|G|A|A|G|T|C|C|T|C|G| 5886
Sbjct  4138  |T|T|G|T|G|G|G|C|T|G|G|C|T|A|G|T|G|G|C|G|C|C|C|C|A|T|C|G|G|C|A|G|T|G|T|T|G|G|A|C|T|G|G|G|G|A|A|G|T|C|C|T|C|G| 4197
Query  5887  |T|G|G|C|A|T|C|T|T|G|C|A|G|G|G|T|A|T|G|G|C|G|G|G|G|C|T|G|G|C|G|G|A|G|C|T|T|T|G|A|G|C|A|T|T|C|A|A|G|A|T|C|A| 5946
Sbjct  4198  |T|A|G|A|C|A|T|C|C|T|G|C|A|G|G|G|T|A|T|G|G|C|G|G|G|G|C|T|G|G|C|G|G|A|G|C|T|T|T|G|G|C|A|T|T|C|A|A|G|A|T|C|A| 4257
Query  5947  |T|G|A|G|C|G|T|G|A|G|G|T|C|C|C|T|C|C|A|G|G|A|G|A|C|T|G|G|T|C|A|A|T|C|T|G|T|G|C|C|C|C|C|A|T|C|T|C|T|C|G| 6006
Sbjct  4258  |T|G|A|G|C|G|T|G|A|G|G|T|C|C|C|T|C|C|A|G|G|A|G|A|C|T|G|G|T|C|A|A|T|C|A|T|G|C|C|C|C|C|A|T|C|T|C|T|C|G| 4317
Query  6007  |C|T|G|A|G|C|C|C|T|T|G|A|T|G|C|G|T|G|G|T|C|T|G|C|G|A|G|A|A|T|A|C|T|G|C|G|C|C|G|G|C|A|C|G|T|T|G|G|C|C|G|G| 6066
Sbjct  4318  |C|C|G|A|G|C|C|C|T|G|T|A|G|T|C|G|G|C|T|G|G|T|C|T|G|T|G|C|A|G|A|A|T|A|C|T|G|C|G|C|G|G|C|A|C|G|T|T|G|G|C|C|G|G| 4377
Query  6067  |G|C|G|A|G|G|G|G|C|A|G|T|G|C|A|T|G|G|A|T|G|A|A|C|C|G|G|C|T|A|A|T|A|G|C|T|T|C|G|C|T|C|C|G|G|G|G|A|A|C|A|T|G| 6126
Sbjct  4378  |G|C|G|A|G|G|G|G|C|A|G|T|G|C|A|T|G|G|A|T|G|A|A|C|C|G|G|C|T|G|A|T|G|C|T|T|C|G|C|T|C|C|G|G|G|G|A|A|C|A|T|G| 4437
Query  6127  |T|T|T|C|C|C|C|A|G|C|A|C|A|G|T|G|C|C|G|G|A|G|A|G|C|A|T|G|C|A|G|C|G|C|C|G|G|C|G|T|C|A|C|T|G|C|C|A|T|A|T|C|A| 6186
Sbjct  4438  |T|T|T|C|C|C|C|A|G|C|A|C|A|G|T|G|C|C|G|G|A|G|A|G|C|A|T|G|C|A|G|T|G|C|C|G|G|C|G|T|C|A|C|T|G|C|C|A|T|A|T|C|A| 4497
Query  6187  |G|C|A|G|C|C|T|C|A|C|T|G|T|A|A|C|C|A|G|C|T|C|T|G|A|G|G|C|G|A|C|T|G|C|A|T|C|A|G|T|G|G|A|T|A|A|G|T|C|G|G|A|G|T|G|T|A| 6246
Sbjct  4498  |G|C|A|G|C|C|T|C|A|C|T|G|T|A|A|C|C|A|G|C|T|C|T|G|A|G|G|C|G|A|C|T|G|C|A|C|A|G|T|G|G|A|T|A|A|G|T|C|G|G|A|G|T|G|T|A| 4557
Query  6247  |C|C|A|C|T|C|C|A|T|G|C|T|C|C|G|G|T|T|C|T|G|G|C|T|A|A|G|G|G|A|C|A|T|C|T|G|G|G|A|C|T|G|G|G|A|T|G|C|G|A|G|T|G|C|T|G|A| 6306
Sbjct  4558  |C|C|A|C|T|C|C|A|T|G|C|T|C|C|G|G|T|T|C|T|G|G|C|T|A|A|G|G|G|A|C|A|T|C|T|G|G|G|A|C|T|G|G|G|A|T|G|C|G|A|G|T|G|T|G|A| 4617
Query  6307  |G|C|G|A|C|T|T|T|A|A|G|A|C|T|G|G|T|G|A|A|G|C|C|A|A|G|C|T|A|T|G|C|C|A|C|A|A|C|T|G|C|T|G|G|G|A|T|T|C|C|T|T|T|G| 6366
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Sbjct	4618	GCACGACGTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCCCTTG	4677
Query	6367	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAG-GAGACGCATTATGCACACTCGC	6425
Sbjct	4678	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGTG-GACGCATCATGCACACTCGC	4736
Query	6426	TGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGT	6485
Sbjct	4737	TGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGT	4796
Query	6486	CCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCTACACCAACGGGC	6545
Sbjct	4797	CCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAAGCCTACACCAACGGGC	4856
Query	6546	CCCTGTACTCCCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGTTGCTGCAGAG	6605
Sbjct	4857	CCCTGTACTCCCCCTTCTGCGCCGAACATACAGTTTCGCGCTATGGAGGTTGCTGCAGAG	4916
Query	6606	GAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGA	6664
Sbjct	4917	GAATATGTGGAGATAAGGCAAGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGA	4975
Query	6665	CAATCTTAAATGCCCTGGCCAGATCCCATCGCCCGAATTTTTCACAGAAATGGACGGGGT	6724
Sbjct	4976	CAATCTCAAATGCCCTGGCCAGGTCCCATCGCCCGAATTTTTCACAGAAATGGACGGGGT	5035
Query	6725	GCGCCCTACACAGGTTTGCGCCCCCTTGCAGGCCCTTGCTGCGGGAGGAGGTATCATTAG	6784
Sbjct	5036	GCGCCCTACATAGGTTTGCGCCCCCTTGCAGGCCCTTGCTGCGGGAGGAGGTATCATTAG	5095
Query	6785	AGTAGGACTCCACAGTACCCGGTGGGTTCGCAATTACCTTGGCAGCCCGAACCGGACGT	6844
Sbjct	5096	AGTAGGACTCCACGAATACCCGGTAGGGTCGCAATTATCTTGGCAGCCCGAACCGGACGT	5155
Query	6845	AGCCGTTTGACGCTTCATGCTCACTGATCCCTCCCATTAACCTACACAGAGGCGGCCGGAG	6904
Sbjct	5156	GGCCGTGTGTGACGCTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCCGCCGGCG	5215
Query	6905	AAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCAGCTCCTCGGCTAGCAGCTGTCCG	6963
Sbjct	5216	AAGGTTGGCGAG-GGGATACCCCCCTCTGTGGCAGCTCCTCGGCTAGCAGCTATCCG	5274
Query	6964	CTCCATCTCTCAAGGCAACTTGACCCGCCAACCATGACTCCCTTGACGCCGAGCTCATAG	7023
Sbjct	5275	CTCCATCTCTCAAGGCAACTTGACCCGCTAACCATGACTCCCTTGATGCTGAGCTCATAG	5334
Query	7024	AGGCTAACCTCCTGTGGAGCAGGAGATGGCGGCAACATCACAGGGTTGAGTCAGAGA	7083
Sbjct	5335	AGGCCAACCTCCTATGGAGCAGGAGATGGCGGCAACATCACAGGGTTGAGTCAGAAA	5394
Query	7084	ACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGAGGATAGCGGGAGG	7143
Sbjct	5395	ACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCGAGGAGGACGAGCGGAGA	5454
Query	7144	TCTCCGTACCTGCAGAAATTTCTGCGGAAAGTCTCGGAGATTGCGCCGGGCCCTGCCCCGCT	7203
Sbjct	5455	TCTCCGTACCCGCAGAAATCTTCTGCGGAAAGTCTCGGAGATTGCGCCAGGCCCTGCCCCGTT	5514
Query	7204	GGCGCGGCGCGGACTACAACCCCCGCTAGTAGAGACGTGAAAAAGCCTGACTACGAAC	7263
Sbjct	5515	GGCGCGGCGCGGACTATAACCCCCGCTAGTGAGAGACGTGAAAAAGCCGACTACGAAC	5574
Query	7264	CACCTGTGGTCCATGGCTGCCCGCTACACCTCCACGGTCCCCCTCTGTGGCTCCGGCTC	7323
Sbjct	5575	CACCTGTGGTCCATGGCTGTCCGCTTCACCTCCAAAGTCCCCCTCTGTGGCTCCGGCTC	5634
Query	7324	GGAAAAAGCGTAGCGTGGTCTCACCGAATCAACCTATCATCTGCTTGGCCGAGCTTG	7383
Sbjct	5635	GGAGAGAGCGGACGGGCTGCTCACTGAATCAACCTATCATCTGCTTGGCCGAGCTTG	5694
Query	7384	CCACAAAAGTTTGGAGCTCCTCAACTTCCGGCATTAACGGGCACAATACGACAACAT	7443
Sbjct	5695	CCACAGAAGCTTTGGAGCTCCTCAACTTCCGGCATTAACGGGCACAATACGACAACAT	5754
Query	7444	CCTCTGAGCCGCGCCCTTCTGGCTGCGCGCGGACTCCGACGTTGAGTGCTATTCTTCCA	7503

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Sbjct 5755 CCTCTGAGCCCGCCCCCTTCTGGCTGCCCGCCGACTCCGACGCTAGTCTTATTCTCCA 5814
Query 7504 TGccccccTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTGACGG 7563
Sbjct 5815 TGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTTACGACAGGGTCATGGTCAACGG 5874
Query 7564 TCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGGACAG 7623
Sbjct 5875 TCAGTAGTAGGGCCAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACTCTTGGACAG 5934
Query 7624 GCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAAATGCCCATCAACGCACTGAGCA 7683
Sbjct 5935 GCGCACTCGTCACCCCGTGCCTGCGGAAGAACAGAACTGCCCATCAATGCATTAAGCA 5994
Query 7684 ACTCGTTGCTACGCCATCACAACTTGGTGATTCACCACTTACGCGAGTCTTGCCAAA 7743
Sbjct 5995 ACTCGTTGCTACGTCACCAAAATTTGGTGATTCACCACTTACGCGAGTCTTGCCAAA 6054
Query 7744 GGCAGAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGC 7803
Sbjct 6055 GGCAGAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTAC 6114
Query 7804 TCAAGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAG 7863
Sbjct 6115 TCAAGGAGGTTAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAG 6174
Query 7864 CTTGAGCCTGACGCCCCCACAATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAGACG 7923
Sbjct 6175 CTTGAGCCTGACGCCCCCACAATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAGACG 6234
Query 7924 TCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTCTGG 7983
Sbjct 6235 TCCGTTGCCATGCCAGAAAGGCCGTAAACCCACATCAACTCCGTGTGGAAGACCTTCTGG 6294
Query 7984 AAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAGAACGAGGTTTTCTGGGTTT 8043
Sbjct 6295 AAGACAAATGTAAACACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGGGTTT 6354
Query 8044 AGCCTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCTGTTTCCCCGACCTGGGCGTGC 8103
Sbjct 6355 AGCCTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCTGTTTCCCCGATCTGGGCGTGC 6414
Query 8104 GCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATG 8162
Sbjct 6415 GCGTGTGCGAAAAGATGGCTTTGTACGACGTGGTTA-CAAGCTCCCCCTGGCCGTGATG 6473
Query 8163 GGAAGCTCCTACGGATTCCAATACTACCAAGGACAGCGGGTTGAATTCCTCGTGCAAGCG 8222
Sbjct 6474 GGAAGCTCCTACGGATTCCAATACTACCAAGGACAGCGGGTTGAATTCCTCGTGCAAGCG 6533
Query 8223 TGGAAAGTCCAAGAAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACA 8282
Sbjct 6534 TGGAAAGTCCAAGAAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACA 6593
Query 8283 GTCACGTAGAGCGACATCCGTACGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCC 8342
Sbjct 6594 GTCACGTAGAGCGACATCCGTACGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCC 6653
Query 8343 CAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTTTACC 8402
Sbjct 6654 CAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTTTACC 6713
Query 8403 AATTCAAGGGGGGAAACTGCGGCTACCGCAGGTGCCGCGAGCGGGCTACTGACAAC 8462
Sbjct 6714 AATTCAAGGGGGGAGAACTGCGGCTATCGCAGGTGCCGCGAGCGGGCTACTGACAAC 6773
Query 8463 AGCTGTGTTAACACCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGACGG 8522
Sbjct 6774 AGCTGTGTTAACACCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGACGG 6833
Query 8523 CTCACGAGCTGCACCATGCTCGTGTGTGGCGACGACTAGTCGTTATCTGTGAAAGTGG 8582
Sbjct 6834 CTCACGAGCTGCACCATGCTCGTGTGTGGCGACGACTAGTCGTTATCTGTGAAAGCGGG 6893
Query 8583 GGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGAGGCTATGACCAAGTACTCC 8642

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9/8/2009


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Sbjct 601      |||
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Query 2350      |||
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Sbjct 661      |||
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Query 2410      |||
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Sbjct 721      |||
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Query 2470      |||
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Sbjct 781      |||
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Query 2530      |||
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Sbjct 841      |||
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Query 2590      |||
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Sbjct 901      |||
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Query 2650      |||
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Sbjct 1081      |||
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Sbjct 1141      |||
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Sbjct 1201      |||
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Query 2950      |||
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Query 3009      |||
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Sbjct 1320      |||
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Query 3069      |||
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Sbjct 1380      |||
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Query 3128      |||
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Sbjct 1440      |||
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Query 3188      |||
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Sbjct 1499      |||
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Sbjct 1559      |||
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Query 3308      |||
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Sbjct 1619      |||
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Query 3368      |||
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Sbjct 1679      |||
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Query 3428      |||
CACGGCTACGCCCAGCAGACGAGAGGCCCTCTAGGGTGATAATCACCAGCCTGACTGG 3487

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Sbjct	1739		CACGGCGTACGCCACGACAGCAAGGGGCTCTTAGGGTGCAATAACACAGCCTAACTGG	1798
Query	3488		CGGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGTACCCAAACCTT	3547
Sbjct	1799		CGGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGTGTGCCAAACCTT	1858
Query	3548		CCTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCAACGGGGCCGAACGAGGAC	3607
Sbjct	1859		CCTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCAACGGGGCCGAACGAGGAC	1918
Query	3608		CATCGCATCACCAAGGGTCTGTCAATCCAGATGTATACCAATGTGGACCAAGACCTTGT	3667
Sbjct	1919		CATCGCGTCAACCAAGGGTCTGTCAATCCAGATGTATACCAATGTAGACCAAGACCTTGT	1978
Query	3668		GGGCTGGCCCGCTCCCTCAAGGTTCCCGCTCATTTGACACCTGTACCTGCGGCTCCTCGGA	3727
Sbjct	1979		GGGCTGGCCCGCTCCCGAAGGTAGCCGCTCATTGACACCTGCACCTTTCGCGCTCCTCGGA	2038
Query	3728		CTTTTACCTGGTACAGGACGCGCATGTCATTCCCGTCCGCGCGGAGGTGATAGCAG	3787
Sbjct	2039		CTTTTACCTGGTACAGGACGCGCATGTCATTCCCGTCCGCGCGGAGGTGATAGCAG	2098
Query	3788		GGGTAGCCTGCTTTTCGCCCGGCCCAITTCCTACTTGAAAGGCTCCTCGGGGGTCCGCT	3847
Sbjct	2099		GGGACGCTGCTGTGCGCCCGGCCCAITTCCTACTTGAAAGGCTCCTCGGGGGTCCGCT	2158
Query	3848		GTGTGCCCCCGGGACACGCGTGGGCTATTACAGGCGCGGTGTGCACCCGTGGAGT	3907
Sbjct	2159		GTGTGCCCCCGGGGACACGCGTGGGCTATTACAGGCGCGGTGTGCACCCGTGGAGT	2218
Query	3908		GGCTAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGACAAACATGAGATCCCCGT	3967
Sbjct	2219		GGCTAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAAACATGAGTCCCCGT	2278
Query	3968		GTTACGGACAACTCCTCTCCACACGAGTGCCTCAGAGTTCACAGTGGCCACCTGCA	4027
Sbjct	2279		GTTACGGATAAATCCTCTCCACACGAGTGCCTCAGAGTTCACAGTGGCTACCTCCA	2338
Query	4028		TGCTCCACCGGACGCGTAAGAGCACCAAGGTCCCGCTGCGTACGACGCCAGGGCTA	4087
Sbjct	2339		TGCTCCACAGGACGCGCAAAAGCACCAAGGTCCCGCTGCATATGACAGTCAGGGCTA	2398
Query	4088		CAAGGTGTGGTGCTCAACCCCTCTGTGTCTGCAACGCTGGGCTTTGGTGCTTACATGTC	4147
Sbjct	2399		TAAGGTGCTAGTACTCAACCCCTCTGTGTCTGCAACGCTGGGCTTTGGTGCTTACATGTC	2458
Query	4148		CAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCACTGGCAG	4207
Sbjct	2459		CAAGGCTCATGGGATCGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCACTGGCAG	2518
Query	4208		CCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGC	4267
Sbjct	2519		CCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCGGGGGGCGC	2578
Query	4268		TTATGACATAATAATTGTGACGAGTGCCACTCCACGATGCCACATCCATCTTTGGGCAT	4327
Sbjct	2579		TTATGACATAATAATTGTGACGAGTGCCACTCCACGATGCCACATCCATCTTTGGGCAT	2638
Query	4328		CGGCATGTCTTGACCAAGCAGAGACTGCGGGGCGAGACTGGTGTGCTCGCCACTGC	4387
Sbjct	2639		CGGCATGTCTTGACCAAGCAGAGACTGCGGGGCGAGACTGGTGTGCTCGCCACTGC	2698
Query	4388		TACCCCTCCGGGTCCGTCACGTGTGTCCCATCCTAACATCGAGGAGTGTGCTGTCCAC	4447
Sbjct	2699		CACCCCTCCGGGTCCGTCACGTGTGTCCCATCCTAACATCGAGGAGTGTGCTGTCCAC	2758
Query	4448		CACCGGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAG	4507
Sbjct	2759		CACCGGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAG	2818
Query	4508		ACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGGAAGCTGTGTCG	4567
Sbjct	2819		ACATCTCATCTTCTGTCAATCAAGAAGAAGTGCGACGAGCTCGCCGGAAGCTGTGTCG	2878
Query	4568		ATTGGGCATCAATGCCGTGGCTACTACCGGGTCTTGACGTGTCTGTATCCCGACCAG	4627

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Sbjct 2879 ATTGGGCATCAATGCCGTGGCCTACTACCGGGCTTGGACGTGTCCTGCATCCCGACCAG 2938
Query 4628 CGGCGATGTTGTGCTGCTGTCGACCGATGCTCTCATGACTGGCTTACCGGCGACTTCGA 4687
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Sbjct 2939 CGGCGATGTTGTGCTGCTGGCAACCGATGCCCTCATGACCGGTATACCGGCGACTTCGA 2998
Query 4688 CTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTTGACCCCTAC 4747
|||||
Sbjct 2999 CTCGGTGATAGACTGCAATACGTGTGTCAACCAGACAGTCGATTTACGCCTTGACCCCTAC 3058
Query 4748 CTTTACCATTGAGACAACACCGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGG 4807
Sbjct 3059 CTTACCAATTGAGACAATACCGCTCCCCCAGGATGCTGTCTCCCGCACTCAACGTGGGG 3118
Query 4808 CAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTTGGCACGGGGAGCGCCCTC 4867
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Sbjct 3119 CAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTTGGCACGGGGAGCGCCCTC 3178
Query 4868 CGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGA 4927
Sbjct 3179 CGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGAGGCTGTGCTTGGTATGA 3238
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Sbjct 3239 GCTCAGCGCCCGCAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCC 3298
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Sbjct 3299 CGTGTGCCAGGACCATTCTGAATTTTGGGAGGGCTCTTTACGGGCTCACTCATATAGA 3358
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Sbjct 3479 GTGTTTGTATCGCTCAAGCCACCTCCATGGGCCAACACCCCTGCTATACAGACTGGG 3538
Query 5228 CGCTGTTTCAAGTGAAGTACCTTGACGCACCCAAATACCAAATACATCATGACATGCAT 5287
Sbjct 3539 CGCTGTTTCAAGTGAAGTACCTTGACGCACCCAGTACCAAATACATCATGACATGCAT 3598
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Sbjct 3778 AAGAGTGTCTCTCAGCATTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCA 3837
Query 5527 AGCAGAAGGCCCTCGGCCCTCTCGAGACCGCTCCCGCATCGAGAGGTATACCCCTTG 5586
Sbjct 3838 AGCAGAAGGCCCTCGGCCCTCTCGAGACCGCTCCCGTCAGGAGAGGTATACCCCTTG 3897
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Sbjct 3898 CTGTCCAGACCAACTGGCAAAAACCTCGAGACCTTCTGGGCGAAGCATGTGGAATTTCA 3957
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Sbjct 3958 TCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCATTTGCTT 4017
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Sbjct	4018	CATTGATGGCTTTTACAGCTGCTGTCCACGAGCCCACTAACCACTAGCCAAACCTCTCTCT	40777
Query	5767	TCAACATATTgggggggTGGGTGGCTGCCAGCTGCGCGCCCCGGTGGCGGTACTGGCT	58266
Sbjct	4078	TCAACATATTGGGGGGGTGGGTGGCTGCCAGCTGCGCGCCCCGGTGGCGGTACTGGCT	41377
Query	5827	TTGTGGGTGCTGGCTAGCTGGCGCGCCCATCGGACGCGTTTGGACTGGGGAAGGTCTCTCG	58866
Sbjct	4138	TTGTGGGCGTGGCTAGCTGGCGCGCCCATCGGACGCGTTTGGACTGGGGAAGGTCTCTCA	41977
Query	5887	TGGACATTCTTGCAGGSTATGCGCGGGCGGTGGCGGGAGCTCTTGTAGATTCAAGATCA	59466
Sbjct	4198	TAGACATCTCTGCAGGSTATGCGCGGGCGGTGGCGGGAGCTCTTGTGGATTCAAGATCA	42577
Query	5947	TGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCTCTCGC	60066
Sbjct	4258	TGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCTCTCGC	43177
Query	6007	CTGGAGCCCTTGTAAGTCGGTGGTCTGCGCAGCAATACTGCGCGGCACGTTGGCCCGG	60666
Sbjct	4318	CCGGAGCCCTCGTAGTCGGCGTGGTCTGTGCAACAATACTGCGCGGCACGTTGGCCCGG	43777
Query	6067	GCAGGGGGGAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCGGGGGAACCATG	61266
Sbjct	4378	GCAGGGGGGAGTGCAAGTGGATGAACCGGCTGATAGCCTTCGCCCTCCGGGGGAACCATG	44377
Query	6127	TTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCGCCCGCGCTACGTGCCATATCTCA	61866
Sbjct	4438	TTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCCGCGCTACGTGCCATATCTCA	44977
Query	6187	GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTA	62466
Sbjct	4498	GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCAAGTGGATAAGCTCGGAGTGTA	45577
Query	6247	CCACTCCATGCTCCGGTCTCTGGCTAAGGAGACATCTGGGACTGGATATGCGAGGTGTGA	63066
Sbjct	4558	CCACTCCATGCTCCGGTCTCTGGCTAAGGAGACATCTGGGACTGGATATGCGAGGTGTGA	46177
Query	6307	GCAGCTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCGGGATTCCTTTTG	63666
Sbjct	4618	GCAGCTTTAAGACCTGGCTAAGCAAGCTCATGCCACAGCTGCCGGGATTCCTTTTG	46777
Query	6367	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGC	64255
Sbjct	4678	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGT-GACGGCATCATGCACACTCGC	47366
Query	6426	TGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGAGCATGAGGATCGTCGGT	64855
Sbjct	4737	TGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGAGCATGAGGATCGTCGGT	47966
Query	6486	CCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAAGCCTACACACGGGC	65455
Sbjct	4797	CCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAAGCCTACACACGGGC	48566
Query	6546	CCCTGTACTCCCCCTCTCTGCGCGCAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAG	66055
Sbjct	4857	CCCTGTACCCCCCTCTCTGCGCGCAACTACACGTTTCGCGCTATGGAGGGTGTCTGCAGAG	49166
Query	6606	GAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGA	66644
Sbjct	4917	GAATATGTGGAGATAAGGCAAGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGA	49755
Query	6665	CAATCTTAAATGCCCGTGCAGATCCCATGCGCCGAATTTTTCACAGAATTGGACGGGGT	67244
Sbjct	4976	CAATCTCAAAATGCCCGTGCAGGTCCTCATGCGCCGAATTTTTCACAGAATTGGACGGGGT	50355
Query	6725	GCGCCTACACAGGTTTGCGCCCTTGCAGCCCTTGTCTGCGGGAGGAGGTATCATTCAG	67844
Sbjct	5036	GCGCCTACATAGTTTGTGCCCCCCCTGCAGCCCTTGTCTGCGGGAGGAGGTATCATTCAG	50955
Query	6785	AGTAGGACTCCAGGATACCCGGTGGGGTGCAGTAATACCTTTCGCGAGCCGAACCGGACGT	68444
Sbjct	5096	AGTAGGACTCCAGGAATACCCGGTAGGGTGCAGTAATACCTTTCGCGAGCCGAACCGGACGT	51555
Query	6845	AGCCGTGTTGACGTCATGCTCACTGATCCTCCCATATAACAGCAGAGGCGGCCGGGAG	69044

Sbjct	5156	GGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATACACGACGAGGCCGCCGGCGG	5215
Query	6905	AAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGTAGCCAGCTGTCCG	6963
Sbjct	5216	AAGGTTGGCGAG-GGGATACCCCCCTCTGTGGCCAGCTCCTCGGTAGCCAGCTATCCG	5274
Query	6964	CTCCATCTCTCAAGGCAACTTGACACGCCAACCATGACTCCCTTGACGCCGAGCTCATAG	7023
Sbjct	5275	CTCCATCTCTCAAGGCAACTTGACACCGCTAACCATGACTCCCTGTAGTGTAGCTCATAG	5334
Query	7024	AGGCTAACCTCCTGTGGAGCAGGAGATGGCGGCCAACATCACCAGGGTTGAGTCAGAGA	7083
Sbjct	5335	AGGCCAACCTCCTATGGAGGCAGGAGATGGCGGCCAACATCACCAGGGTTGAGTCAGAAA	5394
Query	7084	ACAAAGTSGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATGAGCGGGAGG	7143
Sbjct	5395	ACAAAGTSGTGATTCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGAGA	5454
Query	7144	TCTCCGTACCTGCAGAAATTCTGCGGGAAGTCTCGGAGATTGCGCCGGGCCCTGCCCGTCT	7203
Sbjct	5455	TCTCCGTACCCGCAGAAATCTGCGGGAAGTCTCGGAGATTGCCCCAGGCCCTGCCCGTTT	5514
Query	7204	GGCGCGGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAAC	7263
Sbjct	5515	GGCGCGGGCCGGACTATAACCCCCGCTAGTGAGAGACGTGGAAAAAGCCGACTACGAAC	5574
Query	7264	CACCTGTGGTCCATGGCTGCCCGCTACCACTCCACGGTCCCTTCCTGTGCCTCCGCCTC	7323
Sbjct	5575	CACCTGTGGTCCATGGCTGTCCGCTTCACCTCCAAAGTCCCTTCCTGTGCCTCCGCCTC	5634
Query	7324	GGAAAAAGCGTACGGTGGTCCACCCGAATACCCCTATCTACTGCCTTGGCCGAGCTTG	7383
Sbjct	5635	GGAGAAAGCGGACGGGGTGCTCCTCACTGAACTCAACCCCTATCTACTGCCTTGGCCGAGCTG	5694
Query	7384	CCACAAAAGTTTGGGAGCTCTCAACTTCCCGCATACGGGCGCAATACGACAACAT	7443
Sbjct	5695	CCACCAGAAGCTTTGGCAGCTCCTCAACTTCCCGCATTACGGGCGCAATACGACAACAT	5754
Query	7444	CCTCTGAGCCCGCCCTTCTGTGCTGCCCCGACTTCGACGCTGAGTCTATTCTTCCA	7503
Sbjct	5755	CCTCTGAGCCCGCCCTTCTGTGCTGCCCCCCGACTTCGACGCTGAGTCTATTCTTCCA	5814
Query	7504	TGCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTTCATGGTCGACGG	7563
Sbjct	5815	TGCCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTTAGCGACGGTTCATGGTCAACGG	5874
Query	7564	TCAGTAGTGGGCGGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGACAG	7623
Sbjct	5875	TCAGTAGTAGGCGCAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACTCTGGACAG	5934
Query	7624	GCGCACTCGTCAACCCGCTGCGCTGCGGGAAGAACAAAACTGCCCATCAACGCATGAGCA	7683
Sbjct	5935	GCGCACTCGTCAACCCGCTGCGCGCGGAAGAACAGAAACTGCCCATCAATGCATAAGCA	5994
Query	7684	ACTCGTTGCTAGCCATCACAATCTGGTGATTTCACCACTTACCGCAGTGTGTGCCAAA	7743
Sbjct	5995	ACTCGTTGCTAGCTACCAACAATTTGGTGATTTCACCACTTACCGCAGTGTGTGCCAAA	6054
Query	7744	GGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGC	7803
Sbjct	6055	GGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTAC	6114
Query	7804	TCAAGGAGGTCAAAGCAGCGCGGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAG	7863
Sbjct	6115	TCAAGGAGGTTAAGCAGCGCGGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAG	6174
Query	7864	CTTGCAGCTTGACGCCCCCACTTACGCAAACTCAAAGTTTGGCTATGGGCAAAAGACG	7923
Sbjct	6175	CTTGCAGCTTGACGCCCCCACTACGCAAAATCAAAGTTTGGTTATGGGCAAAAGACG	6234
Query	7924	TCCGTTGCCATGCCAGAAAGGCGGTAAACCATCACTCAACTCCGTTGGAAAGACCTTCTGG	7983
Sbjct	6235	TCCGTTGCCATGCCAGAAAGGCGGTAAACCATCACTCAACTCCGTTGGAAAGACCTTCTGG	6294
Query	7984	AAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTCTGCGCTTC	8043

9/8/2009

Sbjct	1	CAGCGTGTCTCTGAGAGGCTAGCCAGCTGCCAGCCCTTACCAGTTTTGACACGGGCTGGG	60
Query	1750	GTCTCATCAGTTATGTCCAAACGGAAGCGGCTCGACGAACGCCCTACTGCTGGCACTACC	1809
Sbjct	61	GCCTATCAGTTATGTCCAAACGGAAGCGGCCGACACGCGCCCTACTGCTGGCACTACC	120
Query	1810	CTCCAAGACCTTGTGGCATTTGTGCCCGCAAGAGCGTGTGTGGCCCGGTATATTGCTTCA	1869
Sbjct	121	CCCCAAACCTTGGCGGTATTGTGCCCGCAAGAGTGTGTGTGGTCCGGTATATTGCTTCA	180
Query	1870	CTCCCAGCCCGTGGTGGTGGGAACGACCACAGGTGCGGGCGCGCTACCTACAGCTGGG	1929
Sbjct	181	CTCCCAGCCCGTGGTGGTGGGAACGACCGACAGGTGCGGGCGCGCCACTACAGCTGGG	240
Query	1930	GTGCAAAATGATACGGATGTCTTCGTCTTAAACAACACAGGCCACCGCTGGGCAATTGGT	1989
Sbjct	241	GTGAAATGATACGGACGCTCTTCGTCTTAAACAATACAGGCCACCGCTGGGCAATTGGT	300
Query	1990	TCGGTTGTACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTG	2049
Sbjct	301	TCGGTTGTACCTGGATGAACCTCACTGGATTACCAAAGTGTGCGGAGCGCCCTCTTGTG	360
Query	2050	TCATCGGAGGGGTGGGCAACAACACCTTGTCTGCGCCCACTGATTGCTTCCGCAAAATC	2109
Sbjct	361	TCATCGGAGGGGTGGGCAACAACACCTGCACTGCGCCCACTGATTGCTTCCGAAGATC	420
Query	2110	CGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCG	2169
Sbjct	421	CGGACGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGTGCCTGGTCG	480
Query	2170	ACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCA	2229
Sbjct	481	ACTACCCGTATAGGCTTTGGCATCTCTTGTACCATCAACTACACCATATTAAATCA	540
Query	2230	GGATGTACGTGGGAGGGGTGCAGACAGGCTTGAAGCGCGCTGCAACTGGACGCGGGGCG	2289
Sbjct	541	GGATGTACGTGGGAGGGGTGCGAACAGGCTTGAAGCTGCCCTGCAACTGGACGCGGGGCG	600
Query	2290	AACGCTGTGATCTGGAAGACAGGGACAGGTCGAGCTCAGCCGTTGCTGCTGCCACCA	2349
Sbjct	601	AACGTTGCGATCTGGAAGACAGGGACAGCTCGAGCTCAGCCGTTACTGCTGACCACTA	660
Query	2350	CACAGTGGCAGGTCTCTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCACCGGCCTCA	2409
Sbjct	661	CACAGTGGCAGGTCTCCCGTGTTCTTTACAACCCCTACCAGCCTTGTCCACCGGCCTCA	720
Query	2410	TCCACCTCCACCAGAAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCG	2469
Sbjct	721	TCCACCTCCACCAGAACTATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCG	780
Query	2470	CGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCTGTTCTCTTCTGCTTGCAGACGCGC	2529
Sbjct	781	CGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCTGTTCTCTTCTGCTTGCAGACGCGC	840
Query	2530	GCGTCTGCTTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGAGA	2589
Sbjct	841	GCGTCTGCTTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGAGA	900
Query	2590	ACCTCGTAATACTCAATGCAGCATCCCTGCGCGGGACGACGGTCTTGTGTCCCTTCCTCG	2649
Sbjct	901	ACCTCGTAATACTTAATGCAGCATCCCTGCGCGGGACGACGGTCTTGTATCCTTCCTCG	960
Query	2650	TGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGGGGCTACGCC	2709
Sbjct	961	TGTTCTTCTGCTTTGCAATGGTATTGAAGGGTAGGTGGGTGCCCGGAGGGGCTACACCT	1020
Query	2710	TCTACGGGATGTGCCCTCTCTCTGCTCTGCTGGCGTTGCCTCAGCGGGCATACGCAC	2769
Sbjct	1021	TCTACGGGATGTGCCCTCTCTCTGCTCTGCTGGCGTTGCCCCAGCGGCGTACGCGC	1080
Query	2770	TGGACACGGAGGTGGCCGCGTGTGTGGCGGCGTGTGTTCTTCTGGGTTAATGGCGTGA	2829
Sbjct	1081	TGGACACGGAGGTGGCCGCGTGTGTGGCGGCGTGTGTTCTCTGCTGGGTTGATGGCGTGA	1140
Query	2830	CTCTGTCGCCATATTACAAGCGCTATATACGCTGGTGATGTGGTGGCTCAGATATTTTC	2889

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Sbjct 1141      |CTCTGTGACCATATTACAAGCGCTATATCAGCTGGTGCTTGTGGTGGCTTCAGTATTTTC| 1200
Query 2890      |TGACCAGAGTAGAAGCGCAACTGCACGCTGTGGGTTccccccTCAACGTCCTCGgggggggC| 2949
Sbjct 1201      |TGACCAGAGTGGAAGCGCAACTGCACGCTGTGGATTCCCCCCCTCAACGTCCTCGAGGGGGGC| 1260
Query 2950      |GCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCCCTGGTATTGTGACATCACC| 3008
Sbjct 1261      |GCGAGCGCGTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTGTGACATCACC| 1319
Query 3009      |AAACTACTCTCGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTTAAAGTC| 3068
Sbjct 1320      |AAATTGCTGTGCGCGCTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTTAAAGTA| 1379
Query 3069      |CCCTACTTCGTGCGCGTTTCAAGGCCCTTCTCCGATCTGCGCGTAGCCGCGGAAGAT-AGC| 3127
Sbjct 1380      |CCCTACTTTGTGCGCGTCCAAGGCCCTTCTCCGGTCTGCGCGTTAGCGCGGAAGATGATC| 1439
Query 3128      |CGGAGGTCAATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT| 3187
Sbjct 1440      |-GGAGGCCATTACGTGCAAAATGGTCATATTAAAGTTAGGGGCGCTTACTGGCACCTATGT| 1498
Query 3188      |GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCAACAACGGCTGCGAGATCTGGCCGT| 3247
Sbjct 1499      |TTATAACCATCTCACTCCTCTTCGGGACTGGGCGCAACAACGGCTGCGAGATCTGGCCGT| 1558
Query 3248      |GGCTGTGGAACCAAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA| 3307
Sbjct 1559      |GGCTGTAGAGCCAGTCGTCTTCTCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGA| 1618
Query 3308      |TACCGCCGCGTGGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCTAGGGGCCAGGA| 3367
Sbjct 1619      |TACCGCCGCGTGGCGGTGACATCATCAACGGCTTGCTGTCTTCCGCCCGCAGGGGCCGGGA| 1678
Query 3368      |GATACTGCTTGGGCCAGCCGAGCGGAATGGTCTCCAAGGGGTGGAGGTGCTGCGGCCCAT| 3427
Sbjct 1679      |GATACTGCTGCGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTGCTGCGGCCCAT| 1738
Query 3428      |CACGGCGTAGCCGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCCTGACTGG| 3487
Sbjct 1739      |CACGGCGTAGCAGCCAGCAGACAAGGGGCCCTCTAGGGTGTATAATCACCAGCCTTACTGG| 1798
Query 3488      |CCGGGACAAAAACAAGTGGAGGGTGGAGTCCAGATCGTGTCAACTGTACCCAAACCTT| 3547
Sbjct 1799      |CCGGGACAAAAACAAGTGGAGGGTGGAGTCCAGATCGTGTCAACTGTGCGCCAAACCTT| 1858
Query 3548      |CTTGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCAAGGGGCGGGAACGAGGAC| 3607
Sbjct 1859      |CTTGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCAAGGGGCGGGAACGAGGAC| 1918
Query 3608      |CATCGCATCACCCAAGGGTCTGTCAATCCAGATGTATACCAATGTGGACCAAGACCTTGT| 3667
Sbjct 1919      |CATCGCGTCACCCAAGGGTCTGTCAATCCAGATGTATACCAATGTAGACCAAGACCTTGT| 1978
Query 3668      |GGCGTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCGTGACTCGCGCTCCTCGGA| 3727
Sbjct 1979      |GGCGTGGCCCGCTCAGCAAGGTAGCGGCTCATTGACACCCGTGACTCGCGCTCCTCGGA| 2038
Query 3728      |CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGGCGCGGCGAGGTGATAGCAG| 3787
Sbjct 2039      |CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGGCGCGGCGGGGTGATAGCAG| 2098
Query 3788      |GGTAGCCTGCTTTTCGCCCGGCCCATTTCTTACTTGAAAGGCTCCTCGGGGGTCCGCT| 3847
Sbjct 2099      |GGCAGCCTGCTGTGCGCCCGGCCCATTTCTTACTTGAAAGGCTCCTCGGGGGTCCGCT| 2158
Query 3848      |GTTGTGCCCGCGGGGACACCGCTGGGGCTATTACAGGCGCCGGTGTGCACCCGTGGAGT| 3907
Sbjct 2159      |GTTGTGCCCGCGGGGACACCGCTGGGCATATTTAGGCGCGGGTGTGCACCCGTGGAGT| 2218
Query 3908      |GGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGT| 3967
Sbjct 2219      |GGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAAACCATGAGGTCCCCGGT| 2278
Query 3968      |GTTACAGGACAACCTCTCTCCACCAAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACTGCA| 4027

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Sbjct 2279 GTTCACGGATAACTCTCTCCACCAGTAGTGCCCCAGAGCTTCACAGGTGGCTCACCTCCA 2338
Query 4028 TGCTCCCACGGCAGCGGTAAGAGCACCAGGTCCCGGCTGCGTAGCAGCCACGGGCTA 4087
Sbjct 2339 TGCTCCCACAGGCAGCGGCAAAAGCACCAGGTCCCGGCTGCATATGCAGCTCAGGGCTA 2398
Query 4088 CAAGGTGTGTGGTCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTGTGTCTTACATGTC 4147
Sbjct 2399 TAAGGTGCTAGTACTCAACCCCTCTGTTGCTGCAACACTGGGCTTGTGTCTTACATGTC 2458
Query 4148 CAAGGCCCATGGGGTTGATCCTAATAATCAGGACCGGGTGAGAACAAATTACCCTGGCAG 4207
Sbjct 2459 CAAGGCTCATGGGATCGATCTTAACATCAGGACCGGGTGAGAACAAATTACCCTGGCAG 2518
Query 4208 CCCCATCAGTACTCCACCTACGGCAAGTTCTTGCCGACGGCGGGTGTCTCAGGAGGTGC 4267
Sbjct 2519 CCCCATCAGTACTCCACCTACGGCAAGTTCTTGCCGACGGCGGGTGTCTCAGGAGGTGC 2578
Query 4268 TTAATGACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT 4327
Sbjct 2579 TTAATGACATAATAATTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT 2638
Query 4328 CGGCACGTCTTGTACCAAGCAGAGACTGCGGGGCGAGACTGGTGTGTCTCGCCACTGC 4387
Sbjct 2639 CGGCACGTCTTGTACCAAGCAGAGACTGCGGGGCGAGACTGGTGTGTCTCGCCACTGC 2698
Query 4388 TACCCCTCCGGGCTCCGTCACTGTGTCCCATCTAACATCGAGGAGGTGTCTGTGCCAC 4447
Sbjct 2699 TACCCCTCCGGGCTCCGTCACTGTGTCCCATCTAACATCGAGGAGGTGTCTGTGCCAC 2758
Query 4448 CACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAG 4507
Sbjct 2759 CACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAG 2818
Query 4508 ACATCTCATCTTCTGCGCACTCAAAGAAGAGTGCAGCAGCTCGCCGGAAGCTGTGTCG 4567
Sbjct 2819 ACATCTCATCTTCTGTCATTCAAAGAAGAGTGCAGCAGACTCGCCGGAAGCTGTGTCG 2878
Query 4568 ATTGGGCATCAATGCCGTGGCTACTACCGCGGTCTTGACGTGTCTGTATCCCGACCAG 4627
Sbjct 2879 ATTGGGCATCAATGCCGTGGCTACTACCGCGGTCTTGACGTGTCCGTATCCCGACCAG 2938
Query 4628 CGGCGATGTTGTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGCGCACTTCGA 4687
Sbjct 2939 CGGCGATGTTGTGTCGTGTCGACCGATGCCCTCATGACCGGTATACCGCGCACTTCGA 2998
Query 4688 CTCGTGTATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCCTTGACCTAC 4747
Sbjct 2999 CTCGTGTATAGACTGCAATACGTGTGTCACTCAGACAGTCGATTTACGCCCTTGACCTAC 3058
Query 4748 CTTTACCATTGAGACAACCAACGCTCCCCCAGGATGCTGTCTCCAGGACTAACCGCGGG 4807
Sbjct 3059 CTTTACCATTGAGACAATACGCTCCCCCAGGATGCTGTCTCCCGCATCAACGTGCGGG 3118
Query 4808 CAGGACTGGCAGGGGGAAGCCAGGCACTATAGATTGTTGGCACCGGGGAGCGCCCTC 4867
Sbjct 3119 CAGGACTGGCAGGGGGAAGCCAGGCACTATACAGATTGTTGGCACCGGGGAGCGCCCTC 3178
Query 4868 CGGCATGTTTCGACTCGTCCGTCCCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGA 4927
Sbjct 3179 CGGCATGTTTCGACTCGTCCGTCCCTGTGAGTGCTATGACGACGCTGTGCTTGGTATGA 3238
Query 4928 GCTCAGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC 4987
Sbjct 3239 GCTCAGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC 3298
Query 4988 CGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTACAGGCCCTCACTCATATAGA 5047
Sbjct 3299 CGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTACAGGCCCTCACTCATATAGA 3358
Query 5048 TGCCCACTTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACCTGGTAGCGTA 5107
Sbjct 3359 TGCCCACTTTCTATCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACCTGGTAGCGTA 3418
Query 5108 CCAAGCCACCGTGTGCGTAGGGCTCAAGCCCTCCCCATCGTGGGACCATGATGTGGAA 5167

Sbjct 3419 CCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGATGTGGAA 3478
Query 5168 GTGTTTGATCCGCTTAAACCCACCCTCCATGGGCGAACACCCTGCTATACAGACTGGG 5227
Sbjct 3479 GTGTTTGATTCGCTCAAGCCACCCCTCCATGGGCGAACACCCTGCTATACAGACTGGG 3538
Query 5228 CGCTGTTCAGAAATGAAGTCAACCTGACGACCACTACCAAATACATCATGACATGCAT 5287
Sbjct 3539 CGCTGTTCAGAAATGAAGTCAACCTGACGACCACTGACCAAATACATCATGACATGCAT 3598
Query 5288 GTGCGCGACCTGGAGGTGCTCAGGACCACTGGGTGCTCGTTGGCGGCGTCTGGCTGC 5347
Sbjct 3599 GTGCGCGACCTGGAGGTGCTCAGGACCACTGGGTGCTCGTTGGCGGCGTCTGGCTGC 3658
Query 5348 TCTGGCCGCGTATTGCGCTGCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTC 5407
Sbjct 3659 TTTGGCCGCGTATTGCGCTGCAACAGGCTGCGTGGTCATAGTGGGCAGGTCGCTTTGTC 3718
Query 5408 CGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGG 5466
Sbjct 3719 CGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAG-AGTTCGATGAGATGG 3777
Query 5467 AAGAGTGTCTTCAGCACTTACCGTACATCGAGCAAGGATGATGCTCGCTGAGCAGTTCA 5526
Sbjct 3778 AAGAGTGTCTTCAGCACTTACCGTACATCGAGCAAGGATGATGCTCGCGGAGCAGTTCA 3837
Query 5527 AGCAGAAGGCCCTCGGCTCCTGCGACCCGCTCCCGCCATGCGAGGTTATCACCCCTG 5586
Sbjct 3838 AGCAGAAGGCCCTCGGCTCCTGCGACCCGCTCCCGTCAGGCAGAGGTTATCGGCCCTG 3897
Query 5587 CTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCAGATGTGGAATTCA 5646
Sbjct 3898 CTGTCCAGACCAACTGGCAAAAACTCGAGACCTTCTGGGCGAAGCAGATGTGGAATTCA 3957
Query 5647 TCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCGCATTTGCTT 5706
Sbjct 3958 TCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCGCGCATTTGCTT 4017
Query 5707 CATTTGATGGCTTTTACAGTGCCTGACACGCCCACTAACCCTGCGCAAAACCTCCTCT 5766
Sbjct 4018 CATTTGATGGCTTTTACAGTGCCTGACACGCCCACTAACCCTAGCCAAACCTCCTCT 4077
Query 5767 TCAACATATTgggggggTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCCT 5826
Sbjct 4078 TCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCCT 4137
Query 5827 TGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCTCTCG 5886
Sbjct 4138 TGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGTGTGTGGACTGGGGAAGGTCTCTCA 4197
Query 5887 TGGACATTTCTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA 5946
Sbjct 4198 TAGACATCCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGCAATTCAAGATCA 4257
Query 5947 TGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGC 6006
Sbjct 4258 TGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCATCCTCTCGC 4317
Query 6007 CTGGAGCCCTTGTAGTCGGTGTGCTCTGCGCAGCAATACTGCGCCGGCAGCTTGGCCCGG 6066
Sbjct 4318 CCGGAGCCCTCGTAGTCGGCTGTGCTGTGCGCAGCAATACTGCGCCGGCAGCTTGGCCCGG 4377
Query 6067 GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCTTTCGCTCCCGGGGAACCATG 6126
Sbjct 4378 GCGAGGGGGCAGTGCAATGGATGAACCGGCTGATAGCTTTCGCTCCCGGGGAACCATG 4437
Query 6127 TTTCCCCACGCACTACGTGCCGGAGAGCGATGACGCGCCCGCGTCACTGCCATACTCA 6186
Sbjct 4438 TTTCCCCACGCACTACGTGCCGGAGAGCGATGACGCTGCCCGCGTCACTGCCATACTCA 4497
Query 6187 GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTA 6246
Sbjct 4498 GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACAGTGGATAAGCTCGGAGTGTA 4557
Query 6247 CCACTCCATGCTCCGTTCTCGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA 6306

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Sbjct 4558      |CCAC|TCCAT|GCT|CCGGT|TCT|GGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGA| 4617
Query 6307      |GCGAC|TTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAAC|TGCCTGGGATTCCCTTTG| 6366
Sbjct 4618      |GCGAC|TTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCTGGGATCCCTTTG| 4677
Query 6367      |TGTC|TGCCAGCGCGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGC| 6425
Sbjct 4678      |TGTC|TGCCAGCGCGGGTATAAGGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGC| 4736
Query 6426      |TGCC|ACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGT| 6485
Sbjct 4737      |TGCC|ACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGT| 4796
Query 6486      |CCTAG|GACCTGCAGGAACATGTGGAGTGGGACGTTCCCAATTAACGCTACACCAAGGGC| 6545
Sbjct 4797      |CCTAG|GACCTGCAGGAACATGTGGAGTGGGACCTTCCCCATTAAGCTACACCAAGGGC| 4856
Query 6546      |CCCTG|TACTCCCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAG| 6605
Sbjct 4857      |CCCTG|TACCCCCCTTCTGCGCCGAACACACGTTTCGCGCTATGAGAGGGTGTCTGCAGAG| 4916
Query 6606      |GAATAC|GTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGA| 6664
Sbjct 4917      |GAATAT|GTGGAGATAAGGCGAGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGA| 4975
Query 6665      |CAATCT|TAAATGCCCGTGCCAGATCCCATCGCCCCGAATTTTTACAGAATTGGACGGGGT| 6724
Sbjct 4976      |CAATCT|CAATGCCCCGTGCCAGGTCCCATCGCCCCGAATTTTTACAGAATTGGACGGGGT| 5035
Query 6725      |GCGCT|ACACAGGTTTTCGCGCCCCCTTGCAAGCCCTTGTCTGCGGAGGAGGATATCATTCA| 6784
Sbjct 5036      |GCGCT|ACATAGTTTTCGCGCCCCCTTGCAAGCCCTTGTCTGCGGAGGAGGATATCATTCA| 5095
Query 6785      |AGTAG|GACTCCACGAGTACCCGGTGGGGTTCGAATTACCTTGCAGAGCCGCAACCGGACGT| 6844
Sbjct 5096      |AGTAG|GACTCCACGAATACCCGGTAGGGTTCGAATTACCTTGCAGAGCCGCAACCGGACGT| 5155
Query 6845      |AGCCG|TGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCGGGAG| 6904
Sbjct 5156      |GGCCG|TGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCGGGGG| 5215
Query 6905      |AAGGT|TGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCG| 6963
Sbjct 5216      |AAGGT|TGGCGAG-GGGATCACCCCCCTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCGG| 5274
Query 6964      |CTCAT|CTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTTGACGCCGAGCTCATAG| 7023
Sbjct 5275      |CTCAT|CTCTCAAGGCAACTTGCACCGCTAACCATGACTCCCTGATGCTGAGCTCATAG| 5334
Query 7024      |AGGCTA|AACCCTCTGTGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGA| 7083
Sbjct 5335      |AGGCCA|AACCCTCTATGGAGGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAAA| 5394
Query 7084      |ACAAAG|TGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGG| 7143
Sbjct 5395      |ACAAAG|TGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCGAGGAGGACGAGCGGGAGA| 5454
Query 7144      |TCTCGT|ACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCGCCGGGCGCTGCGCGTCT| 7203
Sbjct 5455      |TCTCGT|ACCCGCAGAAATCTGCGGAAGTCTCGGAGATTGCGCCAGGCCCTGCGCGTTT| 5514
Query 7204      |GGCGC|GGCGGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAAC| 7263
Sbjct 5515      |GGCGC|GGCGGGACTATAACCCCCCGCTAGTGAGACGTGGAAAAAGCCGACTACGAAC| 5574
Query 7264      |CACCT|GTGGTCCATGGCTGCCCGCTACCACCTCCACGCTCCCTCCTGTGCTTCCGCCCT| 7323
Sbjct 5575      |CACCT|GTGGTCCATGGCTGCCCGTTCACCTCCAAGTCCCTCCTGTGCTTCCGCCCT| 5634
Query 7324      |GGAAAA|AGCGTACGGTGGTCTCACCAGATCAACCCATATCTACTGCCTTGGCCGAGCTTG| 7383
Sbjct 5635      |GGAAGA|AGCGGAGCGGTGGTCTCACTGAATCAACCCATATCTACTGCCTTGGCCGAGCTCG| 5694
Query 7384      |CCACCA|AAGATTTTGGCAGCTCCTCAACTTCGCGCATTACGGCGCACAATACGACAACAT| 7443
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Sbjct	5695	 CCACCAGAAGCTTTGGCGAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACT	5754
Query	7444	 CCTCTGAGCCCGCCCTTCTGGCTG ccccccc GACTCCGACGTTGAGTCCTATTCTTCCA	7503
Sbjct	5755	 CCTCTGAGCCCGCCCTTCTGGCTGCCCGCCGACTCCGACGCTGAGTCCTATTCTTCCA	5814
Query	7504	 T Gccccccc TGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGGTCGACGG	7563
Sbjct	5815	 TGCCCCCTCGGAGGGGAGCCTGGGGATCCGGATCTTACGACAGGGGTATGGTCAACGG	5874
Query	7564	 TCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGACAG	7623
Sbjct	5875	 TCAGTAGTGAGGCCAACGGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACTCTTGGACAG	5934
Query	7624	 GCGCACTCGTCA CCCCG TGGCTGCGGAAGAACAAATGCCCATCAACGCACTGAGCA	7683
Sbjct	5935	 GCGCACTCGTCA CCCCG TGGCTGCGGCGGAAGAACAGAAATGCCCATCAATGCACTAAGCA	5994
Query	7684	 ACTCGTTGCTACGCCATCACAAATCTGGTGATTCACCACTTCACGCAGTGCTTGCCAAA	7743
Sbjct	5995	 ACTCGTTGCTACGTACCAACAATTGGTGATTCACCACTTCACGCAGTGCTTGCCAAA	6054
Query	7744	 GGCAGAGAAGATCACATTGACAGACTGCAAGTTCGGACAGCCATTACCAGGACGTGC	7803
Sbjct	6055	 GGCAGAGAAGATCACATTGACAGACTGCAAGTTCGGACAGCCATTACCAGGACGTAC	6114
Query	7804	 TCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAG	7863
Sbjct	6115	 TCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAG	6174
Query	7864	 CTTGACGCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAGACG	7923
Sbjct	6175	 CTTGACGCTGACGCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGGCAAAGACG	6234
Query	7924	 TCGGTTGCCATGCCAGAAAGGCCGTAGGCCACATCAACTCCGTGTGGAAGACCTTCTGG	7983
Sbjct	6235	 TCGGTTGCCATGCCAGAAAGGCCGTAAACCCACATCAACTCCGTGTGGAAGACCTTCTGG	6294
Query	7984	 AAGACAGTGAACACCAATAGACACTACCATCATGGCCAGAAGCAGGTTTTCTGCGTTC	8043
Sbjct	6295	 AAGACAATGAACACCAATAGACACTACCATCATGGCTAAGAAGCAGGTTTTCTGCGTTC	6354
Query	8044	 AGCCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTCCCGACCTGGGCGTGC	8103
Sbjct	6355	 AGCCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTCCCGACCTGGGCGTGC	6414
Query	8104	 GCGGTGTCGGAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATG	8162
Sbjct	6415	 GCGGTGTCGGAAGATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCCTGGCCGTGATG	6473
Query	8163	 GGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTGTGCAAGCG	8222
Sbjct	6474	 GGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTGTGCAAGCG	6533
Query	8223	 TGGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACA	8282
Sbjct	6534	 TGGAAGTCCAAGAAAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACA	6593
Query	8283	 GTCACGTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCC	8342
Sbjct	6594	 GTCACGTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCC	6653
Query	8343	 CAAGCCCGCTGGCCATCAAGTCCCTCAGTACGAGGCTTTATGTTGGGGGCCCTCTTACC	8402
Sbjct	6654	 CAAGCCCGCTGGCCATCAAGTCCCTCACCAGAGGCTTTATGTTGGGGGCCCTCTTACC	6713
Query	8403	 AATTCAAGGGGGGAAACTGCGGCTACCCGAGGTGCCGCGCAGCGCGGTACTGACAAC	8462
Sbjct	6714	 AATTCAAGGGGGGAGAACTGCGGCTATCGCAGGTGCCGCGCAGCGCGGTACTGACAAC	6773
Query	8463	 AGCTGTGTTAACCCTCACTTGCTACATCAAGGCCCGGGCAGCGTGTGCGAGCCGACGG	8522
Sbjct	6774	 AGCTGTGTTAACCCTCACTTGCTACATCAAGGCCCGGGCAGCGTGTGCGAGCCGACGG	6833
Query	8523	 CTCCAGGACTGCACCATGCTCGTGTGGCGCAGCACTTAGTCGTTATCTGTGAAAGTGCG	8582

9/8/2009

Query	3896	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGACAACCAT	3955
Sbjct	3826	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGACAACCAT	3885
Query	3956	GAGATCCCCGGTGTTCACGGACAACCTCCTCCACAGCAGTGCCTCAGAGCTTCCAGGT	4015
Sbjct	3886	GAGATCCCCGGTGTTCACGGACAACCTCCTCCACAGCAGTGCCTCAGAGCTTCCAGGT	3945
Query	4016	GGCCCACTTGCATGCTCCACCGGCAGCGGTAAAGAGACCAAGGTCCTGGCTGCGTACGC	4075
Sbjct	3946	GGCCCACTTGCATGCTCCACCGGCAGCGGTAAAGAGACCAAGGTCCTGGCTGCGTACGC	4005
Query	4076	AGCCCAAGGGCTACAAGGTGTGGTGTCTCAACCCCTCTGTGTGCTGAACGCTGGGCTTTGG	4135
Sbjct	4006	AGCCCAAGGGCTACAAGGTGTGGTGTCTCAACCCCTCTGTGTGCTGAACGCTGGGCTTTGG	4065
Query	4136	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGTGAGAACAAAT	4195
Sbjct	4066	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGTGAGAACAAAT	4125
Query	4196	TACCACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTG	4255
Sbjct	4126	TACCACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTG	4185
Query	4256	CTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4315
Sbjct	4186	CTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4245
Query	4316	CATCTTGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGT	4375
Sbjct	4246	CATCTTGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGT	4305
Query	4376	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGGT	4435
Sbjct	4306	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGGT	4365
Query	4436	TGCTCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4495
Sbjct	4366	TGCTCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4425
Query	4496	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCACGAGCTCGCCGC	4555
Sbjct	4426	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCACGAGCTCGCCGC	4485
Query	4556	GAAGCTGTGTCGATTGGGCATCAATGCCGTGGCTACTACCGCGGTCTTGACGTGCTGT	4615
Sbjct	4486	GAAGCTGTGTCGATTGGGCATCAATGCCGTGGCTACTACCGCGGTCTTGACGTGCTGT	4545
Query	4616	CATCCGACCAAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4675
Sbjct	4546	CATCCGACCAAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4605
Query	4676	CGCGGACTTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAG	4735
Sbjct	4606	CGCGGACTTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAG	4665
Query	4736	CCTTGACCTACCTTTACCATTGAGACAACACGCTCCCCCAGGATGCTGTCTCCAGGAC	4795
Sbjct	4666	CCTTGACCTACCTTTACCATTGAGACAACACGCTCCCCCAGGATGCTGTCTCCAGGAC	4725
Query	4796	TCAACGCCGGGGCAGGACTGGCAGGGGGGAAGCCAGGCATCTATAGATTTGTGGACCGGG	4855
Sbjct	4726	TCAACGCCGGGGCAGGACTGGCAGGGGGGAAGCCAGGCATCTATAGATTTGTGGACCGGG	4785
Query	4856	GGAGCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTG	4915
Sbjct	4786	GGAGCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTG	4845
Query	4916	TGCTTGGTATGAGCTCAGCCCCCGGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4975
Sbjct	4846	TGCTTGGTATGAGCTCAGCCCCCGGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4905
Query	4976	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTTACGGGCT	5035
Sbjct	4906	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTTACGGGCT	4965

Query	5036	CACTCATATAGATGCCCACTTTTATCCAGACAAAGCAGATGGGGAGAAGCTTCTCTTA	5095
Sbjct	4966	CACTCATATAGATGCCCACTTTTATCCAGACAAAGCAGATGGGGAGAAGCTTCTCTTA	5025
Query	5096	CCTGCTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGA	5155
Sbjct	5026	CCTGCTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGA	5085
Query	5156	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCT	5215
Sbjct	5086	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCT	5145
Query	5216	ATACAGACTGGGCGCTGTTTCAAGATGAAGTCACCTGACGCACCAATACCAAAATACAT	5275
Sbjct	5146	ATACAGACTGGGCGCTGTTTCAAGATGAAGTCACCTGACGCACCAATACCAAAATACAT	5205
Query	5276	CATGACATGCATGTGCGGCCGACCTGGAGGTCGTACAGGACCTGGGTGCTCGTGGCGG	5335
Sbjct	5206	CATGACATGCATGTGCGGCCGACCTGGAGGTCGTACAGGACCTGGGTGCTCGTGGCGG	5265
Query	5336	CGTCTTGGCTGCTCTGGCCGCGTATTGCCGTGCAACAGGCTGCGTGGTCATAGTGGGCAG	5395
Sbjct	5266	CGTCTTGGCTGCTCTGGCCGCGTATTGCCGTGCAACAGGCTGCGTGGTCATAGTGGGCAG	5325
Query	5396	GATCGTCTTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTT	5455
Sbjct	5326	GATCGTCTTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTT	5385
Query	5456	CGATGAGATGGAAGATGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5515
Sbjct	5386	CGATGAGATGGAAGATGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5445
Query	5516	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGACAGACCGCGTCCCGCATGCAGAGGT	5575
Sbjct	5446	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGACAGACCGCGTCCCGCATGCAGAGGT	5505
Query	5576	TATCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTGGGCGAAGCACAT	5635
Sbjct	5506	TATCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTGGGCGAAGCACAT	5565
Query	5636	GTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCC	5695
Sbjct	5566	GTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCC	5625
Query	5696	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCTGGCCA	5755
Sbjct	5626	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCTGGCCA	5685
Query	5756	AACCTCTCTCTCAACATATTgagggggTGGGTGGGTGCCAGCTCGCCGCCCCCGGTGC	5815
Sbjct	5686	AACCTCTCTCTCAACATATTGGGGGGGTGGGTGGGTGCCAGCTCGCCGCCCCCGGTGC	5745
Query	5816	CGCTACTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGG	5875
Sbjct	5746	CGCTACTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGG	5805
Query	5876	GAAGGTCCTCGTGGACATTCTTGAGGGTATGGCGGGCGTGGCGGGAGCTCTTGATAGC	5935
Sbjct	5806	GAAGGTCCTCGTGGACATTCTTGAGGGTATGGCGGGCGTGGCGGGAGCTCTTGATAGC	5865
Query	5936	ATTCAAGATCATGAGCGGTGAGGTCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC	5995
Sbjct	5866	ATTCAAGATCATGAGCGGTGAGGTCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC	5925
Query	5996	CATCCTCTCGCCTGGAGCCCTTGATGTCGGTGTGGTCTGCGCAGCAATACGCGCGGCA	6055
Sbjct	5926	CATCCTCTCGCCTGGAGCCCTTGATGTCGGTGTGGTCTGCGCAGCAATACGCGCGGCA	5985
Query	6056	CGTGTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCG	6115
Sbjct	5986	CGTGTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCG	6045
Query	6116	GGGGAACCATGTTTCCCCCAGCCTACGTGCGGAGAGCGATGCAGCCGCCCCGCTCAC	6175
Sbjct	6046	GGGGAACCATGTTTCCCCCAGCCTACGTGCGGAGAGCGATGCAGCCGCCCCGCTCAC	6105

Query	6176	TGCCATACTCAGCAGCCTCACTGTAACCCAGTCTCTGAGGCGACTGCATCAGTGGATAAG	6235
Sbjct	6106	TGCCATACTCAGCAGCCTCACTGTAACCCAGTCTCTGAGGCGACTGCATCAGTGGATAAG	6165
Query	6236	CTCGGAGTGTACCACTTCCATGCTCCGGTTCCTGGCTAAGGACATCTGGGACTGGATATG	6295
Sbjct	6166	CTCGGAGTGTACCACTTCCATGCTCCGGTTCCTGGCTAAGGACATCTGGGACTGGATATG	6225
Query	6296	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGG	6355
Sbjct	6226	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGG	6285
Query	6356	GATTCCCTTTGTGTCTCTGCCAGCGCGGTATAGGGGGTCTGGCGAGGAGACGCGATTAT	6415
Sbjct	6286	GATTCCCTTTGTGTCTCTGCCAGCGCGGTATAGGGGGTCTGGCGAGGAGACGCGATTAT	6345
Query	6416	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAACCGGGACGATGAG	6475
Sbjct	6346	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAACCGGGACGATGAG	6405
Query	6476	GATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTA	6535
Sbjct	6406	GATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTA	6465
Query	6536	CACCACGGGCCCCCTGTACTCCCTTCTCGCGCGAATATAAGTTCGCGCTGTGGAGGGT	6595
Sbjct	6466	CACCACGGGCCCCCTGTACTCCCTTCTCGCGCGAATATAAGTTCGCGCTGTGGAGGGT	6525
Query	6596	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6655
Sbjct	6526	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6585
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6715
Sbjct	6586	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6645
Query	6716	GGACGGGGTGCGCCCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6646	GGACGGGGTGCGCCCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6705
Query	6776	ATCATTACAGAGTAGGACTCCACAGTACCCGGTGGGGTCGCAATTACCTTTCGAGGCCGA	6835
Sbjct	6706	ATCATTACAGAGTAGGACTCCACAGTACCCGGTGGGGTCGCAATTACCTTTCGAGGCCGA	6765
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Sbjct	6766	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6825
Query	6896	GGCCGGGAGAAAGGTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCA	6955
Sbjct	6826	GGCCGGGAGAAAGGTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTATCCA	6885
Query	6956	GCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGA	7015
Sbjct	6886	GCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGA	6945
Query	7016	GCTCATAGAGGCTAAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGA	7075
Sbjct	6946	GCTCATAGAGGCTAAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGA	7005
Query	7076	GTACAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATGA	7135
Sbjct	7006	GTACAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATGA	7065
Query	7136	GCGGGAGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCT	7195
Sbjct	7066	GCGGGAGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCT	7125
Query	7196	GCCCGTCTGGGCGCGCGGACTACAAACCCCGCTAGTAGAGAGCTGGAAGAAAGCTTGA	7255
Sbjct	7126	GCCCGTCTGGGCGCGCGGACTACAAACCCCGCTAGTAGAGAGCTGGAAGAAAGCTTGA	7185
Query	7256	CTACGAACCACTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCCTCTGTGCC	7315
Sbjct	7186	CTACGAACCACTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCCTCTGTGCC	7245

Query	7316	TCCGCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGC	7375
Sbjct	7246	TCCGCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCTATCTACTGCCTTGGC	7305
Query	7376	CGAGCTTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCGGGATTACGGGCGACAATAC	7435
Sbjct	7306	CGAGCTTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCGGGATTACGGGCGACAATAC	7365
Query	7436	GACAACATCCTCTGAGCCCGCCCTTCTGGCTGacacacacGACTCCGACGTTGAGTCCTA	7495
Sbjct	7366	GACAACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTA	7425
Query	7496	TTCTTCCATGacacacacTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATG	7555
Sbjct	7426	TTCTTCCATGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATG	7485
Query	7556	GTCGACGGTCAAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTTC	7615
Sbjct	7486	GTCGACGGTCAAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATTTC	7545
Query	7616	CTGGACAGGGCGACTCGTACCCCGTGCCTGCGGAAGACAAAAACTGCCCATCAACGC	7675
Sbjct	7546	CTGGACAGGGCGACTCGTACCCCGTGCCTGCGGAAGACAAAAACTGCCCATCAACGC	7605
Query	7676	ACTGAGCAACTCGTTGCTACGCCATCACAACTCTGGTGTATTCCACCACCTTCACGCACTGC	7735
Sbjct	7606	ACTGAGCAACTCGTTGCTACGCCATCACAACTCTGGTGTATTCCACCACCTTCACGCACTGC	7665
Query	7736	TTGCCAAAGGCAGAAAGAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCA	7795
Sbjct	7666	TTGCCAAAGGCAGAAAGAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCA	7725
Query	7796	GGACGTGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGTCTATCCGT	7855
Sbjct	7726	GGACGTGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGTCTATCCGT	7785
Query	7856	AGAGGAAGCTTGACGCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGC	7915
Sbjct	7786	AGAGGAAGCTTGACGCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGC	7845
Query	7916	AAAAGACGTCCGTTGCCATGCCAGAAAGCCGTAGCCACATCAACTCCGTGTGGAAAGA	7975
Sbjct	7846	AAAAGACGTCCGTTGCCATGCCAGAAAGCCGTAGCCACATCAACTCCGTGTGGAAAGA	7905
Query	7976	CCTTCTGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAAGACGAGGTTT	8035
Sbjct	7906	CCTTCTGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAAGACGAGGTTT	7965
Query	8036	CTGCGTTCAGCCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCGCCGACCT	8095
Sbjct	7966	CTGCGTTCAGCCTGAGAAGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCGCCGACCT	8025
Query	8096	GGCGGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGC	8155
Sbjct	8026	GGCGGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGC	8085
Query	8156	CGTGATGGGAAGCTCTACGGATTCCAATACTACCCAGGACAGCGGGTTGAATTCCTCGT	8215
Sbjct	8086	CGTGATGGGAAGCTCTACGGATTCCAATACTACCCAGGACAGCGGGTTGAATTCCTCGT	8145
Query	8216	GCAAGCGTGGAAAGTCCAAGAAGACCCGATGGGGTTCCTGATGATACCCGCTGTTTGA	8275
Sbjct	8146	GCAAGCGTGGAAAGTCCAAGAAGACCCGATGGGGTTCCTGATGATACCCGCTGTTTGA	8205
Query	8276	CTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTAACCAATGTTGTGACCT	8335
Sbjct	8206	CTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTAACCAATGTTGTGACCT	8265
Query	8336	GGACCCCCAAGCCCGGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCC	8395
Sbjct	8266	GGACCCCCAAGCCCGGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCC	8325
Query	8396	TCTTACCAATTCAAGGGGGGAAAATGCGGCTACCGCAGGTGCCGCGAGCGGCGTACT	8455
Sbjct	8326	TCTTACCAATTCAAGGGGGGAAAATGCGGCTACCGCAGGTGCCGCGAGCGGCGTACT	8385

Query	8456	GACAACTAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGC	8515
Sbjct	8386	GACAACTAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGC	8445
Query	8516	CGCAGGGCTCCAGGAGTGCACCATGCTCGTGTGTGGCGAGCACTTAGTCGTATCTGTGA	8575
Sbjct	8446	CGCAGGGCTCCAGGAGTGCACCATGCTCGTGTGTGGCGAGCACTTAGTCGTATCTGTGA	8505
Query	8576	AAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAG	8635
Sbjct	8506	AAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAG	8565
Query	8636	GTACTCCGgacccccgggggaccccc ACAACCAGAATACGACTTGGAGCTTATAACATC	8695
Sbjct	8566	GTACTCCGCCCCCCCCGGGGACCCCCCAACACAGAATACGACTTGGAGCTTATAACATC	8625
Query	8696	ATGCTCCTCCAACGTGTCACTCGCCACGACGGCGCTGGAAGAGGGTCTACTACCTTAC	8755
Sbjct	8626	ATGCTCCTCCAACGTGTCACTCGCCACGACGGCGCTGGAAGAGGGTCTACTACCTTAC	8685
Query	8756	CCGTGACCTTACAAACCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGT	8815
Sbjct	8686	CCGTGACCTTACAAACCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGT	8745
Query	8816	CAATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGCGAGGATGATACT	8875
Sbjct	8746	CAATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGCGAGGATGATACT	8805
Query	8876	GATGACCCATTCTTTAGCGTCCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACCTG	8935
Sbjct	8806	GATGACCCATTCTTTAGCGTCCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACCTG	8865
Query	8936	TGAGATCTACGGAGCCTGCTACTCCATAGAACCACCTGGATCTACCTCCAATCATCAAAAG	8995
Sbjct	8866	TGAGATCTACGGAGCCTGCTACTCCATAGAACCACCTGGATCTACCTCCAATCATCAAAAG	8925
Query	8996	ACTCCATGGCCTCAGCGCAATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGT	9055
Sbjct	8926	ACTCCATGGCCTCAGCGCAATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGT	8985
Query	9056	GGCCGATGCGCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGACTTGGAGACACCGGGCCCG	9115
Sbjct	8986	GGCCGATGCGCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGACTTGGAGACACCGGGCCCG	9045
Query	9116	GAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGACGGGCTGCCATATGTGCAAGTACCT	9175
Sbjct	9046	GAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGACGGGCTGCCATATGTGCAAGTACCT	9105
Query	9176	CTTCAACTGGGCGAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGGCGCTGGCGGGT	9235
Sbjct	9106	CTTCAACTGGGCGAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGGCGCTGGCGGGT	9165
Query	9236	GGACTTGTCCGGTTGGTTTACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGGTGTC	9295
Sbjct	9166	GGACTTGTCCGGTTGGTTTACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGGTGTC	9225
Query	9296	TCATGCCCGGCCCGCTGGTTCTGGTTTTTGCTACTCTGCTCGTGCAGGGGTAGGCAT	9355
Sbjct	9226	TCATGCCCGGCCCGCTGGTTCTGGTTTTTGCTACTCTGCTCGTGCAGGGGTAGGCAT	9285
Query	9356	CTACCTCTCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTC	9415
Sbjct	9286	CTACCTCTCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTC	9345
Query	9416	TGtttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt	9475
Sbjct	9346	TGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9405
Query	9476	tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt	9535
Sbjct	9406	TTTCCTTTCTTTTTTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCT	9465
Query	9536	GTGAAAGGTCCTGTAGCCGCATGACTGCAGAGAGTGTGATACTGGCCTCTCTGCAGATC	9595
Sbjct	9466	GTGAAAGGTCCTGTAGCCGCATGACTGCAGAGAGTGTGATACTGGCCTCTCTGCAGATC	9525

Query 9596 A 9596
Sbjct 9526 A 9526

Score = 597 bits (323), Expect = 6e-167
Identities = 337/343 (98%), Gaps = 4/343 (1%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGA-TGGGGGCGCACTCCACCATGA-ATCACTCCCTGTGAGGAACCTAC	58
Sbjct	26	GCCAGCCCCC-GATTGGGGGCGCACTCCACCAT-AGATCACTCCCTGTGAGGAACCTAC	83
Query	59	TGCTTTCACGCAGAAAGCGCTAGCCATGGCGTTAGTATGAGTGTGTCGACGCCCTCCAGG	118
Sbjct	84	TGCTTTCACGCAGAAAGCGCTAGCCATGGCGTTAGTATGAGTGTGTCGACGCCCTCCAGG	143
Query	119	ACCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC	178
Sbjct	144	ACCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC	203
Query	179	AGGACGACCGGGTCTTCTTGGATAAACCGCTCAATGCCTGGAGATTGGGCGTGCCC	238
Sbjct	204	AGGACGACCGGGTCTTCTTGGATCAACCGCTCAATGCCTGGAGATTGGGCGTGCCC	263
Query	239	CCGCAAGACTGCTAGCCGAGTAGTGTGGGTCGCAAAAGGCTTGTGGTACTGCTGATA	298
Sbjct	264	CCGCGAGACTGCTAGCCGAGTAGTGTGGGTCGCAAAAGGCTTGTGGTACTGCTGATA	323
Query	299	GGGTGCTTGCAGTGCCTCCGGGAGGTCTCGTAGACCGTGCACC	341
Sbjct	324	GGGTGCTTGCAGTGCCTCCGGGAGGTCTCGTAGACCGTGCACC	366

>emb|CS619793.1| Sequence 2 from Patent EP1801116
Length=11509

Sort alignments for this subject see
E value Score Percent identity
Query start position Subject sta

Score = 1.108e+04 bits (6002), Expect = 0.0
Identities = 6122/6181 (99%), Gaps = 4/6181 (0%)
Strand=Plus/Plus

Query	3418	TGGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCA	3477
Sbjct	3348	TGGCGCCTATTACGGGCTACTCCCAACAGACGCGAGGCCCTACTTGGCTGCATCATCTACTA	3407
Query	3478	GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCC-AGATCGTGTCAACTGCT	3536
Sbjct	3408	GCCTCACAGGCCGGGACAGGAACAGAGTGCAGGGGGAGGTCCAAAG-TGGTCTCCACCGCA	3466
Query	3537	ACCCAAACCTTCTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACACGGGGCC	3596
Sbjct	3467	ACACAATCTTTCTTGGCGACCTGCGCTCAATGGCGTGTGTGGACTGTCTATCATGGTGCC	3526
Query	3597	GGAAACGAGGACCATCG-CATCACCACCAAGGGTCTGTGCATCCAGATGTATACCAATGTGGA	3655
Sbjct	3527	GGCTCAAAGACCTTGGCCGGC-CCAAAGGGCCCAATCACCAAAATGTACACCAATGTGGA	3585
Query	3656	CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCTGTACCTG	3715
Sbjct	3586	CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCTGTACCTG	3645
Query	3716	CGGCTCCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTTCATTCCTGTCGCCGGGG	3775
Sbjct	3646	CGGCTCCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTTCATTCCTGTCGCCGGGG	3705
Query	3776	AGGTGATAGCAGGGGTAGCCTGCTTTTCGCCCGGCCCAATTTCCTACTTGAAAGGCTCCTC	3835
Sbjct	3706	AGGTGATAGCAGGGGTAGCCTGCTTTTCGCCCGGCCCAATTTCCTACTTGAAAGGCTCCTC	3765
Query	3836	GGGGGGTCCGCTGTTGTGCCCCGGGACACGCCGTGGGGCTATTACGGGCGCGGTGTG	3895

Sbjct	3766	GGGGGGTCCGCTGTTGTGCCCCGCGGACACGCCGTGGGCTATTACAGGCGCGCGGTGTG	3825
Query	3896	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACTTAGGACAACCAT	3955
Sbjct	3826	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACTTAGGACAACCAT	3885
Query	3956	GAGATCCCCGGTGTTCACGGACAACCTCCTCTCCACAGCAGTGCCTCAGAGCTTCCAGGT	4015
Sbjct	3886	GAGATCCCCGGTGTTCACGGACAACCTCCTCTCCACAGCAGTGCCTCAGAGCTTCCAGGT	3945
Query	4016	GGCCACCTGCATGCTCCACCGCAGCGGTAAAGACCAAGGTCCTCCGGTGCCTACGC	4075
Sbjct	3946	GGCCACCTGCATGCTCCACCGCAGCGGTAAAGACCAAGGTCCTCCGGTGCCTACGC	4005
Query	4076	AGCCAGGGGTACAAGGTTTGGTGTCAACCCCTCTGTGTGCAACGCTGGGCTTTGG	4135
Sbjct	4006	AGCCAGGGGTACAAGGTTTGGTGTCAACCCCTCTGTGTGCAACGCTGGGCTTTGG	4065
Query	4136	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGTGAGAACAA	4195
Sbjct	4066	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGTGAGAACAA	4125
Query	4196	TACCACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGT	4255
Sbjct	4126	TACCACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGT	4185
Query	4256	CTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4315
Sbjct	4186	CTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4245
Query	4316	CATCTTTGGGCATCGGCACGTGCCTTGACCAAGCAGAGACTGCGGGGGCAGACTGTTGT	4375
Sbjct	4246	CATCTTTGGGCATCGGCACGTGCCTTGACCAAGCAGAGACTGCGGGGGCAGACTGTTGT	4305
Query	4376	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCAGTGTGCCATTCCTAACATCGAGGAGT	4435
Sbjct	4306	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCAGTGTGCCATTCCTAACATCGAGGAGT	4365
Query	4436	TGCTCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4495
Sbjct	4366	TGCTCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4425
Query	4496	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGC	4555
Sbjct	4426	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGC	4485
Query	4556	GAAGCTGGTTCGCAATTGGGCATCAATGCCGTGGCTTACTACCGCGGTCTTGACGTGTCTGT	4615
Sbjct	4486	GAAGCTGGTTCGCAATTGGGCATCAATGCCGTGGCTTACTACCGCGGTCTTGACGTGTCTGT	4545
Query	4616	CATCCCGACACAGCGGCGATGTTGTCTGTGTGACCGAGTGTCTCATGACTGGCTTTAC	4675
Sbjct	4546	CATCCCGACACAGCGGCGATGTTGTCTGTGTGACCGAGTGTCTCATGACTGGCTTTAC	4605
Query	4676	CGCGGACTTTCGACTCTGTGTAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAC	4735
Sbjct	4606	CGCGGACTTTCGACTCTGTGTAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAC	4665
Query	4736	CCTTGACCTACCTTTACCAATTGAGACAACCAACGCTCCCCCAGGATGCTGCTCCAGGAC	4795
Sbjct	4666	CCTTGACCTACCTTTACCAATTGAGACAACCAACGCTCCCCCAGGATGCTGCTCCAGGAC	4725
Query	4796	TCACGCGCGGGGACGAGCTGGCAGGGGGGAAGCCAGGCAATCTATAGATTTGTGGCACC	4855
Sbjct	4726	TCACGCGCGGGGACGAGCTGGCAGGGGGGAAGCCAGGCAATCTATAGATTTGTGGCACC	4785
Query	4856	GGAGCGCCCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTG	4915
Sbjct	4786	GGAGCGCCCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTG	4845
Query	4916	TGCTTGGTATGAGCTCACGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4975
Sbjct	4846	TGCTTGGTATGAGCTCACGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4905
Query	4976	CCCGGGGCTTCCCGTGTGCCAGGACCATCTGAATTTTGGAGGGCGCTTTTACGGGCT	5035

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Sbjct 4906 CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCT 4965
Query 5036 CACTCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAAGTTTCCTTA 5095
Sbjct 4966 CACTCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAAGTTTCCTTA 5025
Query 5096 CCTGTAGCGTAGCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTTCCCCATCGTGGGA 5155
Sbjct 5026 CCTGTAGCGTAGCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTTCCCCATCGTGGGA 5085
Query 5156 CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCT 5215
Sbjct 5086 CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCT 5145
Query 5216 ATACAGACTGGCGCTGTTTCTGAGATGAAGTCACCTGACGCACCCAATACCAAAATACAT 5275
Sbjct 5146 ATACAGACTGGCGCTGTTTCTGAGATGAAGTCACCTGACGCACCCAATACCAAAATACAT 5205
Query 5276 CATGACATGCAATGTGCGCCGACCTGGAGGTGCTCACGAGCACCTGGGTGCTCGTGGCGG 5335
Sbjct 5206 CATGACATGCAATGTGCGCCGACCTGGAGGTGCTCACGAGCACCTGGGTGCTCGTGGCGG 5265
Query 5336 CGTCTTGGCTGCTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG 5395
Sbjct 5266 CGTCTTGGCTGCTCTGGCCGCGTATTGCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG 5325
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Sbjct 5386 CGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC 5445
Query 5516 TGAGCAGTTCGAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCATGCAAGAGT 5575
Sbjct 5446 TGAGCAGTTCGAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCATGCAAGAGT 5505
Query 5576 TATCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCAGAGCACAT 5635
Sbjct 5506 TATCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCAGAGCACAT 5565
Query 5636 GTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCC 5695
Sbjct 5566 GTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCC 5625
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Sbjct 5626 CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCACTGGCCA 5685
Query 5756 AACCCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTGCCGCCCGGGTGC 5815
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Sbjct 5806 GAAGGTCCTCGTGACATTCTTGAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGATAGC 5865
Query 5936 ATTCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC 5995
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Query 6056 CGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG 6115
Sbjct 5986 CGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG 6045
Query 6116 GGGGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATTGACGCGCCCGGCTCAC 6175
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Sbjct 6046 GGGGAACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGCAGCGCCCGCGTCAC 6105
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Sbjct 6466 CACCACGGGCCCCGTACTCCCTTCTCGCCGAACATAAGTTCGCGCTGTGGAGGGT 6525
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Sbjct 6526 GTCTGCAGAGGAATACGTGGAGATAAGCGGGTGGGGGACTTCCACTACGTATCGGGTAT 6585
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Query 6776 ATCATTACAGTAGGACTCCACGAGTACCCGGTGGGGTTCGAATTAACCTTGCAGGCCGA 6835
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Query 6956 GCTGTCCGCTCCATCTCTCAAGGCAACTTGACACCGCAACCATGACTCCCTGACGCCGA 7015
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Query 7076 GTACAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGGGAGAGGAGGATGA 7135
Sbjct 7006 GTACAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGGGAGAGGAGGATGA 7065
Query 7136 GCGGGAGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCT 7195
Sbjct 7066 GCGGGAGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCT 7125
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Sbjct 7126 GCCCGTCTGGGCGCGGCCGACTACAACCCCCGCTAGTAGAGAGCTGGAAGAAAGCTGA 7185
Query 7256 CTACGAACCACTGTGGTCCATGGCTGCCCGTACCACCTCCACGGTCCCTTCCTGTGCC 7315
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Sbjct	7186	CTACGAACCACTGTGGTCCATGGCTGCCCGCTACCACTCCACGGTCCCCCTCTGTGCC	7245
Query	7316	TCCGCTCGGAAAAAGCGTACGGTGGTCTCACCGGAATCAACCTATCTACTGCCCTTGGC	7375
Sbjct	7246	TCCGCTCGGAAAAAGCGTACGGTGGTCTCACCGGAATCAACCTATCTACTGCCCTTGGC	7305
Query	7376	CGAGCTTGGCACCAAAAGTTTTGGCAGCTCCTCAACTTCGGGATTACGGGCGACAATAC	7435
Sbjct	7306	CGAGCTTGGCACCAAAAGTTTTGGCAGCTCCTCAACTTCGGGATTACGGGCGACAATAC	7365
Query	7436	GACAACATCCTCTGAGCCGCCCTTCTGGCTGCCCCGACTCCGACGTTGAGTCTTA	7495
Sbjct	7366	GACAACATCCTCTGAGCCGCCCTTCTGGCTGCCCCGACTCCGACGTTGAGTCTTA	7425
Query	7496	TTCTTCCATGCCCCCTGGAGGGGGAGCTGGGGATCCGGATCTCAGCGACGGGTCA	7555
Sbjct	7426	TTCTTCCATGCCCCCTGGAGGGGGAGCTGGGGATCCGGATCTCAGCGACGGGTCA	7485
Query	7556	GTCGACGGTCACTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATT	7615
Sbjct	7486	GTCGACGGTCACTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGCTTATT	7545
Query	7616	CTGGACAGGCGCACTCGTACCCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGC	7675
Sbjct	7546	CTGGACAGGCGCACTCGTACCCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGC	7605
Query	7676	ACTGAGCAACTCGTTGCTACGCCATCACAACTTGGTGTATTCCACCACCTTCAGCGAGTGC	7735
Sbjct	7606	ACTGAGCAACTCGTTGCTACGCCATCACAACTTGGTGTATTCCACCACCTTCAGCGAGTGC	7665
Query	7736	TTGCCAAGGCGAGAAGAAAGTCAATTTGACAGACTGCAAGTTCTGGACAGCCATTACCA	7795
Sbjct	7666	TTGCCAAGGCGAGAAGAAAGTCAATTTGACAGACTGCAAGTTCTGGACAGCCATTACCA	7725
Query	7796	GGACGTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGT	7855
Sbjct	7726	GGACGTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGT	7785
Query	7856	AGAGGAAGCTTGACGCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGC	7915
Sbjct	7786	AGAGGAAGCTTGACGCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGC	7845
Query	7916	AAAAGACGTCCTGTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGA	7975
Sbjct	7846	AAAAGACGTCCTGTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGA	7905
Query	7976	CCTTCTGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAGAACGAGGTTT	8035
Sbjct	7906	CCTTCTGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAGAACGAGGTTT	7965
Query	8036	CTGCGTTACGCTGAGAAGGGGGGTGTAAGCCAGCTCGTCTCATCGTGTTCGCCGACCT	8095
Sbjct	7966	CTGCGTTACGCTGAGAAGGGGGGTGTAAGCCAGCTCGTCTCATCGTGTTCGCCGACCT	8025
Query	8096	GGCGGTGCGGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGC	8155
Sbjct	8026	GGCGGTGCGGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGC	8085
Query	8156	CGTGATGGGAAGCTCTACGGATTCCAATACTACCAAGGACAGCGGGTTGAATTCCTCGT	8215
Sbjct	8086	CGTGATGGGAAGCTCTACGGATTCCAATACTACCAAGGACAGCGGGTTGAATTCCTCGT	8145
Query	8216	GCAAGCGTGGAAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTGA	8275
Sbjct	8146	GCAAGCGTGGAAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTGA	8205
Query	8276	CTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCT	8335
Sbjct	8206	CTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCT	8265
Query	8336	GGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCC	8395
Sbjct	8266	GGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCC	8325
Query	8396	TCTTACCAATTCAGGGGGGAAAACTGCGGCTACCGCAGGTGCCCGCGAGCGCGCTACT	8455

Sbjct	8326	TCTTACCAATTCAAGGGGGGAAAACATGCGGCTACCGCAGGTGCCGCGCAGCGGGCTACT	8385
Query	8456	GACAACTAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCGTGTGAGC	8515
Sbjct	8386	GACAACTAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCGTGTGAGC	8445
Query	8516	CGCAGGGCTCCAGGATGACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGA	8575
Sbjct	8446	CGCAGGGCTCCAGGATGACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGA	8505
Query	8576	AAGTGCAGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGAGGCTATGACCAG	8635
Sbjct	8506	AAGTGCAGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGAGGCTATGACCAG	8565
Query	8636	GTACTCCGCCCCCCCCGGGGACCCCCAACCCAGAATACGACTTGGAGCTTATAACATC	8695
Sbjct	8566	GTACTCCGCCCCCCCCGGGGACCCCCAACCCAGAATACGACTTGGAGCTTATAACATC	8625
Query	8696	ATGCTCCTCCAAAGTGTGATGCGCCACGACGGCGCTGAAAAGAGGGTCTACTACCTTAC	8755
Sbjct	8626	ATGCTCCTCCAAAGTGTGATGCGCCACGACGGCGCTGAAAAGAGGGTCTACTACCTTAC	8685
Query	8756	CCGTGACCTTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGT	8815
Sbjct	8686	CCGTGACCTTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGT	8745
Query	8816	CAATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGCGAGGATGATACT	8875
Sbjct	8746	CAATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGCGAGGATGATACT	8805
Query	8876	GATGACCCATTTCTTTAGCGTCCCTATAGCCAGGATCAGCTTGAACAGGCTCTTAACCTG	8935
Sbjct	8806	GATGACCCATTTCTTTAGCGTCCCTATAGCCAGGATCAGCTTGAACAGGCTCTTAACCTG	8865
Query	8936	TGAGATCTACGGAGCTGCTACTCCATAGAACCACCTGGATCTACCTCCAATCATCAAAG	8995
Sbjct	8866	TGAGATCTACGGAGCTGCTACTCCATAGAACCACCTGGATCTACCTCCAATCATCAAAG	8925
Query	8996	ACTCCATGGCTCAGCGCATTTTCACTCCACAGTTACTTCCAGGTGAAATCAATAGGGT	9055
Sbjct	8926	ACTCCATGGCTCAGCGCATTTTCACTCCACAGTTACTTCCAGGTGAAATCAATAGGGT	8985
Query	9056	GGCCGATGCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCG	9115
Sbjct	8986	GGCCGATGCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCG	9045
Query	9116	GAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCGAGGCTGCCATATGTGGCAAGTACCT	9175
Sbjct	9046	GAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCGAGGCTGCCATATGTGGCAAGTACCT	9105
Query	9176	CTTCAACTGGGCGAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGGCGCTGGCCGGT	9235
Sbjct	9106	CTTCAACTGGGCGAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGGCGCTGGCCGGT	9165
Query	9236	GGACTTGTCCGGTTGGTTACCGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTG	9295
Sbjct	9166	GGACTTGTCCGGTTGGTTACCGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTG	9225
Query	9296	TCATGCCCGCCCCGCTGGTTCTGGTTTTGGCTACTCCTGCTCGTCAGGGGTAGGCAT	9355
Sbjct	9226	TCATGCCCGCCCCGCTGGTTCTGGTTTTGGCTACTCCTGCTCGTCAGGGGTAGGCAT	9285
Query	9356	CTACCTCTCTCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCTCTTAAGCCATTTC	9415
Sbjct	9286	CTACCTCTCTCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCTCTTAAGCCATTTC	9345
Query	9416	TGtttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt	9475
Sbjct	9346	TGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9405
Query	9476	ttttcttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt	9535
Sbjct	9406	TTTCCTTTCTTTTTTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCT	9465
Query	9536	GTGAAGGTCGCGTAGCGCGCATGACTGCAGAGAGTGCTGATCTGGCTCTCTGCGAGATC	9595

Sbjct 9466 GTGAAAGTGCCGTGAGCCGCTTGACTGCAGAGAGTGCTGATACTGGCCCTCTCTGCAGATC 9525
 Query 9596 A 9596
 Sbjct 9526 A 9526

Score = 597 bits (323), Expect = 6e-167
 Identities = 337/343 (98%), Gaps = 4/343 (1%)
 Strand=Plus/Plus

Query 1 GCCAGCCCCCTGA-TGGGGGCGCACTCCACCATGA-ATCACTCCCTGTGAGGAACCTAC 58
 Sbjct 26 GCCAGCCCCC-GATTGGGGGCGCACTCCACCAT-AGATCACTCCCTGTGAGGAACCTAC 83
 Query 59 TGCTTTCACGCAGAAAGCGCTAGCCATGGCGGTAGTATGAGTGTCGTGCAGCCCTCAGG 118
 Sbjct 84 TGCTTTCACGCAGAAAGCGCTAGCCATGGCGGTAGTATGAGTGTCGTGCAGCCCTCAGG 143
 Query 119 ACCCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC 178
 Sbjct 144 ACCCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC 203
 Query 179 AGGACACCGGGTCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCC 238
 Sbjct 204 AGGACACCGGGTCTTTCTTGGATCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCC 263
 Query 239 CCGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGAAAGGCGCTTGTGGTACTGCCTGATA 298
 Sbjct 264 CCGCGAGACTGCTAGCCGAGTAGTGTGGGTGCGAAAGGCGCTTGTGGTACTGCCTGATA 323
 Query 299 GGGTGTCTTGCAGATGCCCGGGAGGTCTCGTAGACCGTGCACC 341
 Sbjct 324 GGGTGTCTTGCAGATGCCCGGGAGGTCTCGTAGACCGTGCACC 366

>emb|GM975264.1| Sequence 19 from Patent WO2008148671
 Length=11507

Sort alignments for this subject se
 E value Score Percent identity
 Query start position Subject sta

Score = 1.106e+04 bits (5987), Expect = 0.0
 Identities = 6117/6181 (98%), Gaps = 4/6181 (0%)
 Strand=Plus/Plus

Query 3418 TGGCGCCCATCACGGCGTACGCCACGAGAGAGGCCCTCTAGGGTGTATAATCACCA 3477
 Sbjct 3346 TGGCGCCTATTACGGGCTACTCCCAACAGACGCGAGGCGCTACTTGGCTGCATCATCACTA 3405
 Query 3478 GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGGTCC-AGATCGTGTCAACTGCT 3536
 Sbjct 3406 GCCTCAGACGGCCGGGACAGGAACCAAGTGCAGGGGGAGGTCCAAAG-TGGTCTCCACCGCA 3464
 Query 3537 ACCCAAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGAGTGTCTACCACGGGGCC 3596
 Sbjct 3465 ACACATACTTTCTTGGCGACCTGCGTCAATGGCGTGTGTGGACTGTCTATCATGTGGCC 3524
 Query 3597 GGAACGAGGACCATCG-CATCACCCAAGGTCCTGTCAATCCAGATGTATACCAATGTGGA 3655
 Sbjct 3525 GGCTCAAAGACCTTGGCCGGC-CCAAAGGGCCCAATCACCAAAATGTACACCAATGTGGA 3583
 Query 3656 CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCTGTACCTG 3715
 Sbjct 3584 CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCTGTACCTG 3643
 Query 3716 CGGCTCCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTCAATCCCGTGCGCCGGCG 3775
 Sbjct 3644 CGGCTCCTCGGACCTTTACCTGGTACGAGGCACGCCGATGTCAATCCCGTGCGCCGGCG 3703
 Query 3776 AGGTGATAGCAGGGGTAGCCTGCTTTGCCCCGGGCCATTTCCTACTTGAAAGGCTCCTC 3835
 Sbjct 3704 AGGTGATAGCAGGGGTAGCCTGCTTTGCCCCGGGCCATTTCCTACTTGAAAGGCTCCTC 3763

Query	3836	GGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCTATTACGGGCGCGGTGTG	3895
Sbjct	3764	GGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCTATTACGGGCGCGGTGTG	3823
Query	3896	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3955
Sbjct	3824	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3883
Query	3956	GAGATCCCCGGTGTTCACGGACAACCTCCTCTCCACAGCAGTGCCTCAGAGCTTCCAGGT	4015
Sbjct	3884	GAGATCCCCGGTGTTCACGGACAACCTCCTCTCCACAGCAGTGCCTCAGAGCTTCCAGGT	3943
Query	4016	GGCCACCTGCATGCTCCACCGCAGCGGTAAAGACACCAAGTCCCGGCTGCGTACGC	4075
Sbjct	3944	GGCCACCTGCATGCTCCACCGCAGCGGTAAAGACACCAAGTCCCGGCTGCGTACGC	4003
Query	4076	AGCCAGGGCTACAAGGTGTGGTGCTCAACCCCTCTGTGTGCTCAACGCTGGGCTTTGG	4135
Sbjct	4004	AGCCAGGGCTACAAGGTGTGGTGCTCAACCCCTCTGTGTGCTCAACGCTGGGCTTTGG	4063
Query	4136	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAT	4195
Sbjct	4064	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAT	4123
Query	4196	TACCACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGCGGGTG	4255
Sbjct	4124	TACCACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGCGGGTG	4183
Query	4256	CTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCTCCACGGATGCCACATC	4315
Sbjct	4184	CTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCTCCACGGATGCCACATC	4243
Query	4316	CATCTTGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGT	4375
Sbjct	4244	CATCTTGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGT	4303
Query	4376	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCAGTGTGCCATTCCTAACATCGAGGAGGT	4435
Sbjct	4304	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCAGTGTGCCATTCCTAACATCGAGGAGGT	4363
Query	4436	TGCTCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCTTCGAGGTGAT	4495
Sbjct	4364	TGCTCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCTTCGAGGTGAT	4423
Query	4496	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAGAAGAAGTGCAGCAGCTCGCCGC	4555
Sbjct	4424	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAGAAGAAGTGCAGCAGCTCGCCGC	4483
Query	4556	GAAGCTGGTGCATTTGGGCATCAATGCCGTGGCTACTACCGCGGTCTTGACGTGTCTGT	4615
Sbjct	4484	GAAGCTGGTGCATTTGGGCATCAATGCCGTGGCTACTACCGCGGTCTTGACGTGTCTGT	4543
Query	4616	CATCCCGACACGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4675
Sbjct	4544	CATCCCGACACGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4603
Query	4676	CGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAC	4735
Sbjct	4604	CGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAC	4663
Query	4736	CCTTGACCTTACCTTTACCAATTGAGACAACACGCTCCCCAGGATGTGTCTCCAGGAC	4795
Sbjct	4664	CCTTGACCTTACCTTTACCAATTGAGACAACACGCTCCCCAGGATGTGTCTCCAGGAC	4723
Query	4796	TCAAGCGCGGGGACGAGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGACCGGG	4855
Sbjct	4724	TCAAGCGCGGGGACGAGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGACCGGG	4783
Query	4856	GGAGCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCATATGACGCGGGCTG	4915
Sbjct	4784	GGAGCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCATATGACGCGGGCTG	4843
Query	4916	TGCTTGGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4975
Sbjct	4844	TGCTTGGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4903

Query	4976	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCT	5035
Sbjct	4904	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCT	4963
Query	5036	CACATCATATAGATGCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCTTA	5095
Sbjct	4964	CACATCATATAGATGCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCTTA	5023
Query	5096	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGA	5155
Sbjct	5024	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGA	5083
Query	5156	CCAGATGTGGAAGTGTGTTGATCCGCCCTTAAACCCACCCCTCCATGGGCCAACACCCCTGCT	5215
Sbjct	5084	CCAGATGTGGAAGTGTGTTGATCCGCCCTTAAACCCACCCCTCCATGGGCCAACACCCCTGCT	5143
Query	5216	ATACAGACTGGGCGCTGTTTCTAGAATGAAGTCACCCCTGACGCACCAATCACCATAATACAT	5275
Sbjct	5144	ATACAGACTGGGCGCTGTTTCTAGAATGAAGTCACCCCTGACGCACCAATCACCATAATACAT	5203
Query	5276	CATGACATGCATGTGGGCGACCTGGAGGTGCTCAGCAGACCTGGGTGCTCGTGGCGG	5335
Sbjct	5204	CATGACATGCATGTGGGCGATCTAGAGGTGCTCAGCAGACCTGGGTGCTCGTGGCGG	5263
Query	5336	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5395
Sbjct	5264	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5323
Query	5396	GATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCGAGGAT	5455
Sbjct	5324	GATCGTCTTGTCCGGGAGGCGGGCAATTATACCTGACAGGGAGGTTCTCTACCGAGGAT	5383
Query	5456	CGATGAGATGGAAGAGTGTCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5515
Sbjct	5384	CGATGAGATGGAAGAGTGTCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5443
Query	5516	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGT	5575
Sbjct	5444	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGT	5503
Query	5576	TATCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACAT	5635
Sbjct	5504	TATCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACAT	5563
Query	5636	GTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCC	5695
Sbjct	5564	GTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCC	5623
Query	5696	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACAGCCCACTAACCACTGGCCA	5755
Sbjct	5624	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACAGCCCACTAACCACTGGCCA	5683
Query	5756	AACCCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCCGGTGC	5815
Sbjct	5684	AACCCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCCGGTGC	5743
Query	5816	CGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGG	5875
Sbjct	5744	CGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGG	5803
Query	5876	GAAGTCTCTGCTGGACATTTCTTGAGGGTATGGCGCGGGCTGGCGGGAGCTCTTGTAGC	5935
Sbjct	5804	GAAGTCTCTGCTGGACATTTCTTGAGGGTATGGCGCGGGCTGGCGGGAGCTCTTGTAGC	5863
Query	5936	ATTCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC	5995
Sbjct	5864	ATTCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC	5923
Query	5996	CATCCTCTCGCGCTGGAGCCCTTGTAGTCGGTGTGCTCTGCGCAGCAATACTGCGCCGGCA	6055
Sbjct	5924	CATCCTCTCGCGCTGGAGCCCTTGTAGTCGGTGTGCTCTGCGCAGCAATACTGCGCCGGCA	5983
Query	6056	CGTTGGCCCCGGGCGAGGGGGCAGTGCATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6115
Sbjct	5984	CGTTGGCCCCGGGCGAGGGGGCAGTGCATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6043

Query	6116	GGGGAACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGCAGCCGCCCGCTCAC	6175
Sbjct	6044	GGGGAACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGCAGCCGCCCGCTCAC	6103
Query	6176	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6235
Sbjct	6104	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6163
Query	6236	CTCGGAGTGTACCACTCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATG	6295
Sbjct	6164	CTCGGAGTGTACCACTCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATG	6223
Query	6296	CGAGGTGCTGAGCGCACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGG	6355
Sbjct	6224	CGAGGTGCTGAGCGCACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGG	6283
Query	6356	GATTCCTTTTGTGTCTTGCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6415
Sbjct	6284	GATTCCTTTTGTGTCTTGCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6343
Query	6416	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAGACGGGACGATGAG	6475
Sbjct	6344	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAGACGGGACGATGAG	6403
Query	6476	GATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCCTA	6535
Sbjct	6404	GATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCCTA	6463
Query	6536	CACCACGGGCCCCGTACTTCCCTTCTCGCGCGAACAATAAGTTCGCGCTGTGGAGGGT	6595
Sbjct	6464	CACCACGGGCCCCGTACTTCCCTTCTCGCGCGAACAATAAGTTCGCGCTGTGGAGGGT	6523
Query	6596	GTCCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6655
Sbjct	6524	GTCCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6583
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGGAATTTTTCACAGAATT	6715
Sbjct	6584	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGGAATTTTTCACAGAATT	6643
Query	6716	GGACGGGGTGCGCCTACACAGGTTTGCGCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6644	GGACGGGGTGCGCCTACACAGGTTTGCGCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6703
Query	6776	ATCATTAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCGAGGCCGA	6835
Sbjct	6704	ATCATTAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCGAGGCCGA	6763
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Sbjct	6764	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6823
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCA	6955
Sbjct	6824	GGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTATCCA	6883
Query	6956	GCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGA	7015
Sbjct	6884	GCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGA	6943
Query	7016	GCTCATAGAGGCTAACCTCTGTGGAGGCAAGGATGGCGCGCAACATCACCAGGGTTGA	7075
Sbjct	6944	GCTCATAGAGGCTAACCTCTGTGGAGGCAAGGATGGCGCGCAACATCACCAGGGTTGA	7003
Query	7076	GTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7135
Sbjct	7004	GTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7063
Query	7136	GCGGGAGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCT	7195
Sbjct	7064	GCGGGAGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCT	7123
Query	7196	GCCCGTCTGGGCGCGGCCGACTACAACCCCCCGCTAGTAGAGAGCTGGAAAAAGCCTGA	7255
Sbjct	7124	GCCCGTCTGGGCGCGGCCGACTACAACCCCCCGCTAGTAGAGAGCTGGAAAAAGCCTGA	7183

Query	7256	CTACGAACCACTGTGGTCCATGGCTGCCCGTACCACCTCCACGGTCCCCTCTCTGTGCC	7315
Sbjct	7184	CTACGAACCACTGTGGTCCATGGCTGCCCGTACCACCTCCACGGTCCCCTCTCTGTGCC	7243
Query	7316	TCCGCTCGGAAAAGCGTACGGTGGTCTCACCAGAAACAACCTATCTACTGCCCTTGGC	7375
Sbjct	7244	TCCGCTCGGAAAAGCGTACGGTGGTCTCACCAGAAACAACCTATCTACTGCCCTTGGC	7303
Query	7376	CGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATACGGGCGACAATAC	7435
Sbjct	7304	CGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATACGGGCGACAATAC	7363
Query	7436	GACAACATCCTCTGAGCCCGCCCTTCTGGCTGACGAGGACTCCGACGTTGAGTCTTA	7495
Sbjct	7364	GACAACATCCTCTGAGCCCGCCCTTCTGGCTGACGAGGACTCCGACGTTGAGTCTTA	7423
Query	7496	TTCTTCCATGCCCCCTTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCA	7555
Sbjct	7424	TTCTTCCATGCCCCCTTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCA	7483
Query	7556	GTCGACGGTCACTAGTGGGGCCGACCGGAAGATGTCGTGTGCTGCTCAATGCTTATT	7615
Sbjct	7484	GTCGACGGTCACTAGTGGGGCCGACCGGAAGATGTCGTGTGCTGCTCAATGCTTATT	7543
Query	7616	CTGGACAGGGCGACTCGTACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGC	7675
Sbjct	7544	CTGGACAGGGCGACTCGTACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGC	7603
Query	7676	ACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCATTTCACGAGTGC	7735
Sbjct	7604	ACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCATTTCACGAGTGC	7663
Query	7736	TTGCCAAAGGCAGAAAGTACATTGACAGACTGCAAGTTCTGGACAGCCATTACCA	7795
Sbjct	7664	TTGCCAAAGGCAGAAAGTACATTGACAGACTGCAAGTTCTGGACAGCCATTACCA	7723
Query	7796	GGACGTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGT	7855
Sbjct	7724	GGACGTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGT	7783
Query	7856	AGAGGAAGCTTGACGCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGC	7915
Sbjct	7784	AGAGGAAGCTTGACGCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGC	7843
Query	7916	AAAAGACGTCCTGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGA	7975
Sbjct	7844	AAAAGACGTCCTGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGA	7903
Query	7976	CCTTCTGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAGACGAGGTTT	8035
Sbjct	7904	CCTTCTGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAGACGAGGTTT	7963
Query	8036	CTGCGTTGACCTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCTGTGTCCCCGACCT	8095
Sbjct	7964	CTGCGTTGACCTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCTGTGTCCCCGACCT	8023
Query	8096	GGGCGTGCCTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGC	8155
Sbjct	8024	GGGCGTGCCTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGC	8083
Query	8156	CGTGATGGGAAGCTCCTACGGATTCCAATACTACCAAGGACAGCGGGTTGAATTCCTCGT	8215
Sbjct	8084	CGTGATGGGAAGCTCCTACGGATTCCAATACTACCAAGGACAGCGGGTTGAATTCCTCGT	8143
Query	8216	GCAAGCGTGGAAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTGA	8275
Sbjct	8144	GCAAGCGTGGAAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTGA	8203
Query	8276	CTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCT	8335
Sbjct	8204	CTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCT	8263
Query	8336	GGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCC	8395
Sbjct	8264	GGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCC	8323

Query	8396	TCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCGTACT	8455
Sbjct	8324	TCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCGTACT	8383
Query	8456	GACAACCTAGCTGTGGTAAACACCCCTCACTTGCTACATCAAGGCCGGGAGCTGTGCGAGC	8515
Sbjct	8384	GACAACCTAGCTGTGGTAAACACCCCTCACTTGCTACATCAAGGCCGGGAGCTGTGCGAGC	8443
Query	8516	CGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGA	8575
Sbjct	8444	CGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGA	8503
Query	8576	AAGTGCAGGGGTCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGAGGCTATGACCAG	8635
Sbjct	8504	AAGTGCAGGGGTCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGAGGCTATGACCAG	8563
Query	8636	GTACTCCGCCCCCCCCGGGGACCCCCACAACAGAATACGACTTGGAGCTTATAACATC	8695
Sbjct	8564	GTACTCCGCCCCCCCCGGGGACCCCCACAACAGAATACGACTTGGAGCTTATAACATC	8623
Query	8696	ATGCTCCTCCAACGTGTCACTGCGCCACGACGGCGCTGGAAGAGGGGTCTACTACCTTAC	8755
Sbjct	8624	ATGCTCCTCCAACGTGTCACTGCGCCACGACGGCGCTGGAAGAGGGGTCTACTACCTTAC	8683
Query	8756	CCGTGACCCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGT	8815
Sbjct	8684	CCGTGACCCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGT	8743
Query	8816	CAATTCTCGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGCGAGGATGATACT	8875
Sbjct	8744	CAATTCTCGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGCGAGGATGATACT	8803
Query	8876	GATGACCCATTCTTTAGCGTCCCTATAGCCAGGATCAGCTTGAACAGGCTCTTAACCTG	8935
Sbjct	8804	GATGACCCATTCTTTAGCGTCCCTATAGCCAGGATCAGCTTGAACAGGCTCTTAACCTG	8863
Query	8936	TGAGATCTACGAGGCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAG	8995
Sbjct	8864	TGAGATCTACGAGGCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAG	8923
Query	8996	ACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGT	9055
Sbjct	8924	ACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGT	8983
Query	9056	GGCCGCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCCG	9115
Sbjct	8984	GGCCGCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCCG	9043
Query	9116	GAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAAGGCTGCCATATGTGGCAAGTACCT	9175
Sbjct	9044	GAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAAGGCTGCCATATGTGGCAAGTACCT	9103
Query	9176	CTTCAACTGGGCGAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGGCT	9235
Sbjct	9104	CTTCAACTGGGCGAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGGCT	9163
Query	9236	GGACTTGTCCGGTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTG	9295
Sbjct	9164	GGACTTGTCCGGTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTG	9223
Query	9296	TCATGCCCGGCCCGCTGGTTCTGGTTTGGCTACTCTGCTCGCTGAGGGGTAGGCAT	9355
Sbjct	9224	TCATGCCCGGCCCGCTGGTTCTGGTTTGGCTACTCTGCTCGCTGAGGGGTAGGCAT	9283
Query	9356	CTACCTCCTCCCAACCGATGAAGGTTGGGGTAAACACTCCGCGCTCTTAAGCCATTTC	9415
Sbjct	9284	CTACCTCCTCCCAACCGATGAAGGTTGGGGTAAACACTCCGCGCTCTTAAGCCATTTC	9343
Query	9416	TGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9475
Sbjct	9344	TGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9403
Query	9476	TTTCCCTTCTTTTCCCTTCTTTAAAGGTGGCTCCATCTTAGCCCTAGTACGGCTAGCT	9535
Sbjct	9404	TTTCCCTTCTTTTCCCTTCTTTAAAGGTGGCTCCATCTTAGCCCTAGTACGGCTAGCT	9463

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Query 9536 GTGAAAGTCCGTGAGCCGATGACTGCAGAGAGTGTGATACTGGCCTCTCTGCAGATC 9595
          |||
Sbjct 9464 GTGAAAGTCCGTGAGCCGCTTACTGCAGAGAGTGTGATACTGGCCTCTCTGCAGATC 9523

Query 9596 A 9596
          |
Sbjct 9524 A 9524

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Score = 597 bits (323), Expect = 6e-167
 Identities = 337/343 (98%), Gaps = 4/343 (1%)
 Strand=Plus/Plus

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Query 1 GGCAGCCCCCTGA-TGGGGGCGCACTCCACCATGA-ATCACTCCCTGTGAGGAACATC 58
          |||
Sbjct 26 GGCAGCCCCC-GATTGGGGGCGCACTCCACCAT-AGATCACTCCCTGTGAGGAACATC 83

Query 59 TGTCTTCACGCGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCCTCCAGG 118
          |||
Sbjct 84 TGTCTTCACGCGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCCTCCAGG 143


Query 119 AcccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC 178
          |||
Sbjct 144 ACCCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC 203

Query 179 AGGACGACCGGGTCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCC 238
          |||
Sbjct 204 AGGACGACCGGGTCTTTCTTGGATCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCC 263

Query 239 CCGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCTTGTGGTACTGCCTGATA 298
          |||
Sbjct 264 CCGCGAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCTTGTGGTACTGCCTGATA 323

Query 299 GGGTGTCTTGGAGTGCCTCCGGGAGGTCTCGTAGACCGTGACC 341
          |||
Sbjct 324 GGGTGTCTTGGAGTGCCTCCGGGAGGTCTCGTAGACCGTGACC 366

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>dbj|DJ065332.1|  HCV Replicon Shuttle Vectors
 Length=11509

Sort alignments for this subject se
 E value Score Percent identity
 Query start position Subject sta

Score = 1.104e+04 bits (5978), Expect = 0.0
 Identities = 6116/6183 (98%), Gaps = 8/6183 (0%)
 Strand=Plus/Plus

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Query 3418 TGGCGCCCATCACGGCGTACGCCAGACGAGAGGCGCTCTAGGGTGTATAATCACCA 3477
          |||
Sbjct 3348 TGGCGCCTATTACGGGCTACTCCCAACAGACGCGAGGCGCTACTTGGCTGCATCATCACTA 3407

Query 3478 GCCTGACTGGCCGGGAGAAAACCAAGTGGAGGGTGGAGTCC-AGATCGTGTCACTGTCT 3536
          |||
Sbjct 3408 GCTTCACAGGCCGGGACAGGAACAGGTGAGGGGGAGGTCCAAAG-TGGTCTCCACCGCA 3466

Query 3537 ACCCAAACTTCTTGGCAACGTGCATCAATGGGGTATGCTGGAAGTGTCTACCAACGGGGCC 3596
          |||
Sbjct 3467 ACACAATCTTTCTTGGCGACCTGCGTCAATGGCGTGTGTTGGACTGTCTATCATGGTGCC 3526

Query 3597 GGAACGAGGACCATCG-CATACCCCAAGGGTCTGTATCCAGATGTATACCAATGTGGA 3655
          |||
Sbjct 3527 GGCTCAAAGACCTTGTCCCGG-CCAAAGGGCCCAATACCCCAAAATGTACACCAATGTGGA 3585

Query 3656 CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCTGTACCTG 3715
          |||
Sbjct 3586 CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCTGTACCTG 3645

Query 3716 CGGCTCCTCGGACCTTTACCTGGTACAGAGGCACGCGGATGTCAATCCCGTGCAGCGGG 3775
          |||
Sbjct 3646 CGGCTCCTCGGACCTTTACCTGGTACAGAGGCACGCGGATGTCAATCCCGTGCAGCGGG 3705

Query 3776 AGGTGATAGCAGGGGTAGCCTGCTTTTCGCCCGGCCCAATTTCCTACTTGAAAGGCTCTCT 3835
          |||

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Sbjct	3706	AGGTGATAGCAGGGGTAGCCTGCTTTGCCCCCGGCCATTTCCCTACTTGAAAGGCTCCTC	3765
Query	3836	GGGGGGTCCGCTGTTGTGCCCGCGGGACACGCGTGGGGCTATTACGGGCCCGGTGTG	3895
Sbjct	3766	GGGGGGTCCGCTGTTGTGCCCGCGGGACACGCGTGGGGCTATTACGGGCCCGGTGTG	3825
Query	3896	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3955
Sbjct	3826	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3885
Query	3956	GAGATCCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	4015
Sbjct	3886	GAGATCCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	3945
Query	4016	GGCCCACTGTCATGCTCCACCAGCAGCGGTAAAGACCAAGGTCCCGGCTGCGTACGC	4075
Sbjct	3946	GGCCCACTGTCATGCTCCACCAGCAGCGGTAAAGACCAAGGTCCCGGCTGCGTACGC	4005
Query	4076	AGCCAGGGGTACAAGGTGTTGGTGTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGG	4135
Sbjct	4006	AGCCAGGGGTACAAGGTGTTGGTGTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGG	4065
Query	4136	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGTGAGAACAA	4195
Sbjct	4066	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGTGAGAACAA	4125
Query	4196	TACCACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTG	4255
Sbjct	4126	TACCACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTG	4185
Query	4256	CTCAGGAGGTGCTTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4315
Sbjct	4186	CTCAGGAGGTGCTTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4245
Query	4316	CATCTTGGGCATCGGCACGTGCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTGTG	4375
Sbjct	4246	CATCTTGGGCATCGGCACGTGCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTGTG	4305
Query	4376	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGGT	4435
Sbjct	4306	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGGT	4365
Query	4436	TGCTCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4495
Sbjct	4366	TGCTCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4425
Query	4496	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGC	4555
Sbjct	4426	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGC	4485
Query	4556	GAAGTGTGTCGATTGGGCATCAATGCCGTGGCTACTACCCGGGTCTTGACGTGTCTGT	4615
Sbjct	4486	GAAGTGTGTCGATTGGGCATCAATGCCGTGGCTACTACCCGGGTCTTGACGTGTCTGT	4545
Query	4616	CATCCCGACACAGCGGCGATGTTGTCTGCTGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4675
Sbjct	4546	CATCCCGACACAGCGGCGATGTTGTCTGCTGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4605
Query	4676	CGCGGACTTCGACTCTGTGATAGACTGCAACACGTTGTGTCACCTCAGACAGTCGATTTAC	4735
Sbjct	4606	CGCGGACTTCGACTCTGTGATAGACTGCAACACGTTGTGTCACCTCAGACAGTCGATTTAC	4665
Query	4736	CCTTGACCTTACCTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGCTCCAGGAC	4795
Sbjct	4666	CCTTGACCTTACCTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGCTCCAGGAC	4725
Query	4796	TCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGG	4855
Sbjct	4726	TCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGG	4785
Query	4856	GGAGCGCCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTG	4915
Sbjct	4786	GGAGCGCCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTG	4845
Query	4916	TGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4975

Sbjct	4846	TGCTTGGTATGAGCTACGCCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4905
Query	4976	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTTACGGGCT	5035
Sbjct	4906	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGCTTTTACGGGCT	4965
Query	5036	CACATCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCTTA	5095
Sbjct	4966	CACATCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCTTA	5025
Query	5096	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGA	5155
Sbjct	5026	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGA	5085
Query	5156	CCAGATGTGGAAGTGTGTTGATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCT	5215
Sbjct	5086	CCAGATGTGGAAGTGTGTTGATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCT	5145
Query	5216	ATACAGACTGGGCGCTGTTTCTGAGATGAAGTACCCCTGACGCACCAATCACCATAATACAT	5275
Sbjct	5146	ATACAGACTGGGCGCTGTTTCTGAGATGAAGTACCCCTGACGCACCAATCACCATAATACAT	5205
Query	5276	CATGACATGCATGTGCGCCGACCTGGAGGTGCTCAGCAGACCTGGGTGCTCGTTGGCGG	5335
Sbjct	5206	CATGACATGCATGTGCGCCGACCTGGAGGTGCTCAGCAGACCTGGGTGCTCGTTGGCGG	5265
Query	5336	CGTCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCG	5395
Sbjct	5266	CGTCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCG	5325
Query	5396	GATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTT	5455
Sbjct	5326	GATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTT	5385
Query	5456	CGATGAGATGGAAGAGTGTCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5515
Sbjct	5386	CGATGAGATGGAAGAGTGTCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5445
Query	5516	TGAGCAGTTCAGCAGAAGGCCCTCGGCCTCTGCAGACCGCGTCCCGCCATGCAGAGGT	5575
Sbjct	5446	TGAGCAGTTCAGCAGAAGGCCCTCGGCCTCTGCAGACCGCGTCCCGCCATGCAGAGGT	5505
Query	5576	TATCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACAT	5635
Sbjct	5506	TATCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACAT	5565
Query	5636	GTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCC	5695
Sbjct	5566	GTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCC	5625
Query	5696	CGCCATGCTTCATTGATGGCTTTTACAGCTGCCGTCACAGCCCACTAACCACTGGCCA	5755
Sbjct	5626	CGCCATGCTTCATTGATGGCTTTTACAGCTGCCGTCACAGCCCACTAACCACTGGCCA	5685
Query	5756	AACCCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGC	5815
Sbjct	5686	AACCCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGC	5745
Query	5816	CGCTACTGCTTTTGTGGGTGCTGGCTAGCTGGCGCCGCCATCGGCAGCGTTGACTGGG	5875
Sbjct	5746	CGCTACTGCTTTTGTGGGTGCTGGCTAGCTGGCGCCGCCATCGGCAGCGTTGACTGGG	5805
Query	5876	GAAGTCCCTGTGGGACATCTTTCAGGGTATGGCGGGGGTGGCGGGAGCTCTTGATAGC	5935
Sbjct	5806	GAAGTCCCTGTGGGACATCTTTCAGGGTATGGCGGGGGTGGCGGGAGCTCTTGATAGC	5865
Query	5936	ATTCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC	5995
Sbjct	5866	ATTCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC	5925
Query	5996	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	6055
Sbjct	5926	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	5985
Query	6056	CGTTGGCCCCGGCGAGGGGGCAGTGCAATGGATGAACCGCTTAATAGCCTTCGCCCTCCG	6115

Sbjct	5986	CGTTGGCCCGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCG	6045
Query	6116	GGGGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGGCTCAC	6175
Sbjct	6046	GGGGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGGCTCAC	6105
Query	6176	TGCCATACTCAGCAGCCTCACTGTAACCCAGTCTCTGAGGCGACTGCATCAGTGGATAAG	6235
Sbjct	6106	TGCCATACTCAGCAGCCTCACTGTAACCCAGTCTCTGAGGCGACTGCATCAGTGGATAAG	6165
Query	6236	CTCGGAGTGTACCACTCCAATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6295
Sbjct	6166	CTCGGAGTGTACCACTCCAATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6225
Query	6296	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGG	6355
Sbjct	6226	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGG	6285
Query	6356	GATTCCCTTTGTGTCTTGCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6415
Sbjct	6286	GATTCCCTTTGTGTCTTGCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6345
Query	6416	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6475
Sbjct	6346	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6405
Query	6476	GATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTA	6535
Sbjct	6406	GATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTA	6465
Query	6536	CACCACGGGCCCTGTACTCCCTTCTCGCGCCGAACATAAGTTCGCGCTGTGGAGGGT	6595
Sbjct	6466	CACCACGGGCCCTGTACTCCCTTCTCGCGCCGAACATAAGTTCGCGCTGTGGAGGGT	6525
Query	6596	GTCCTCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6655
Sbjct	6526	GTCCTCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6585
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATT	6715
Sbjct	6586	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATT	6645
Query	6716	GGACGGGGTGCGCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6646	GGACGGGGTGCGCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6705
Query	6776	ATCATTACAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGA	6835
Sbjct	6706	ATCATTACAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGA	6765
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Sbjct	6766	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6825
Query	6896	GGCCGGGAGAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCA	6955
Sbjct	6826	GGCCGGGAGAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTATCCA	6885
Query	6956	GCTGTCGGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGA	7015
Sbjct	6886	GCTGTCGGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGA	6945
Query	7016	GCTCATAGAGGCTAACTCCTGTGGAGGAGGAGATGGGGCGCAACATCACCAGGGTTGA	7075
Sbjct	6946	GCTCATAGAGGCTAACTCCTGTGGAGGAGGAGATGGGGCGCAACATCACCAGGGTTGA	7005
Query	7076	GTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCCGCTTGTGGCAGAGGAGGATGA	7135
Sbjct	7006	GTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCCGCTTGTGGCAGAGGAGGATGA	7065
Query	7136	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCGCCCGGCCCT	7195
Sbjct	7066	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCGCCCGGCCCT	7125
Query	7196	GCCCGTCTTGGGCGCGCGGACTACAACCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7255

Sbjct	7126	GCCCGTCTGGGCGCGGCCGACTACAACCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7185
Query	7256	CTACGAACCACTGTGGTCCATGGCTGCCGCTACCACCTCCACGGTCCCCTCCTGTGGC	7315
Sbjct	7186	CTACGAACCACTGTGGTCCATGGCTGCCGCTACCACCTCCACGGTCCCCTCCTGTGGC	7245
Query	7316	TCCGCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCATATCTACTGCCCTTGGC	7375
Sbjct	7246	TCCGCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCATATCTACTGCCCTTGGC	7305
Query	7376	CGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7435
Sbjct	7306	CGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7365
Query	7436	GACAACATCCTCTGAGCCCGCCCCCTTCTGGCTGcccccccGACTCCGACGTTGAGTCCTA	7495
Sbjct	7366	GACAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTA	7425
Query	7496	TTCTTCCATGcccccccTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCA TG	7555
Sbjct	7426	TTCTTCCATGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCA TG	7485
Query	7556	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCG-TGTG-TGCTCAATGTCTTAT	7613
Sbjct	7486	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATG-CGATC-GCTGTCTAATGTCTTAT	7543
Query	7614	TCTTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAAC	7673
Sbjct	7544	TCTTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAAC	7603
Query	7674	GCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCGAT	7733
Sbjct	7604	GCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCGAT	7663
Query	7734	GCTTGCCAAAGGCAGAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTAC	7793
Sbjct	7664	GCTTGCCAAAGGCAGAGAAAGTCACATTGACAGACTGCAAGTTCTGGACAGCCATTAC	7723
Query	7794	CAGGACGTGCTCAAGGAGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCC	7853
Sbjct	7724	CAGGACGTGCTCAAGGAGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCC	7783
Query	7854	GTAGAGGAAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGG	7913
Sbjct	7784	GTAGAGGAAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGG	7843
Query	7914	GCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAA	7973
Sbjct	7844	GCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAA	7903
Query	7974	GACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGACGAGTT	8033
Sbjct	7904	GACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGACGAGTT	7963
Query	8034	TTCTGCGTTAGCCTGAGAAAGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTCCCCGCAC	8093
Sbjct	7964	TTCTGCGTTAGCCTGAGAAAGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTCCCCGCAC	8023
Query	8094	CTGGGCGTGGCGGTGTGGGAGAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTG	8153
Sbjct	8024	CTGGGCGTGGCGGTGTGGGAGAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTG	8083
Query	8154	GCCGTGATGGGAAGCTCTACGGATTCCAATACTACACGAGCAGCGGGTTGAATTCTCT	8213
Sbjct	8084	GCCGTGATGGGAAGCTCTACGGATTCCAATACTACACGAGCAGCGGGTTGAATTCTCT	8143
Query	8214	GTGCAAGCGTGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8144	GTGCAAGCGTGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8203
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333
Sbjct	8204	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8263
Query	8334	CTGAGCCCCCAAGCCCGCTGGCCATCAAGTCCCTACTGAGAGGCTTTATGTTGGGGGC	8393

Sbjct	8264	CTGACCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8323
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGGAGCGCGTA	8453
Sbjct	8324	CCTCTTACCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGGAGCGCGTA	8383
Query	8454	CTGACAACCTAGCTGTGGTAAACACCTCACTTGCTACATCAAGGCCGGGACGCTGTCTGA	8513
Sbjct	8384	CTGACAACCTAGCTGTGGTAAACACCTCACTTGCTACATCAAGGCCGGGACGCTGTCTGA	8443
Query	8514	GCCGCGAGGGTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Sbjct	8444	GCCGCGAGGGTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8503
Query	8574	GAAAGTGCGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGAGGGCTATGACC	8633
Sbjct	8504	GAAAGTGCGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGAGGGCTATGACC	8563
Query	8634	AGGTACTCCGCCCCCCCCGGGGACCCCAACAACGAGAATACGACTTGGAGCTTATAACA	8693
Sbjct	8564	AGGTACTCCGCCCCCCCCGGGGACCCCAACAACGAGAATACGACTTGGAGCTTATAACA	8623
Query	8694	TCATGCTCCTCCAACGTGTGCTGCGCCACGACGGCGCTGGAAAGAGGGCTTACTACCTT	8753
Sbjct	8624	TCATGCTCCTCCAACGTGTGCTGCGCCACGACGGCGCTGGAAAGAGGGCTTACTACCTT	8683
Query	8754	ACCCGTGACCTTACAACCCCTTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCA	8813
Sbjct	8684	ACCCGTGACCTTACAACCCCTTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCA	8743
Query	8814	GTCAAATCTCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGCGGAGGATGATA	8873
Sbjct	8744	GTCAAATCTCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGCGGAGGATGATA	8803
Query	8874	CTGATGACCAATTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8933
Sbjct	8804	CTGATGACCAATTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8863
Query	8934	TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCAATTCAA	8993
Sbjct	8864	TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCAATTCAA	8923
Query	8994	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG	9053
Sbjct	8924	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG	8983
Query	9054	GTGGCCGATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCAGGCTTGAGACACCGGGCC	9113
Sbjct	8984	GTGGCCGATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCAGGCTTGAGACACCGGGCC	9043
Query	9114	CGGAGCGTGCAGGCTTAGGCTTCTGTCCAGAGGAGGACAGGCTGCCATATGTGGCAAGTAC	9173
Sbjct	9044	CGGAGCGTGCAGGCTTAGGCTTCTGTCCAGAGGAGGACAGGCTGCCATATGTGGCAAGTAC	9103
Query	9174	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGG	9233
Sbjct	9104	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCGCTGGCCGG	9163
Query	9234	CTGGACTTGTCCGGTTGGTTACGGCTGGCTACAGCGGGGGAGACATTATACACAGCGTG	9293
Sbjct	9164	CTGGACTTGTCCGGTTGGTTACGGCTGGCTACAGCGGGGGAGACATTATACACAGCGTG	9223
Query	9294	TCATATGCCCGGCCCGCTGGTTCTGGTTTGTGCTTCTGCTGCTGCAGGGGTAGGC	9353
Sbjct	9224	TCATATGCCCGGCCCGCTGGTTCTGGTTTGTGCTTCTGCTGCTGCAGGGGTAGGC	9283
Query	9354	ATCTACCTCCTCCCAACCGATGAAGTTGGGGTAAACACTCCGGCCTCTTAAGCCATT	9413
Sbjct	9284	ATCTACCTCCTCCCAACCGATGACGTCGGGTAAACACTCCGGCCTCTTAAGCCATT	9343
Query	9414	CCTGtttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt	9473
Sbjct	9344	CCTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9403
Query	9474	tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt	9533

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Sbjct  9404  TTTTTCCTTTCTTTTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAG  9463
Query   9534  CTGTGAAAGGTCCGTGAGCCGATGACTGCAGAGAGTGCTGATACCTGGCCCTCTCTGCAGA  9593
Sbjct  9464  CTGTGAAAGGTCCGTGAGCCGCTTGACTGCAGAGAGTGCTGATACCTGGCCCTCTCTGCAGA  9523
Query   9594  TCA  9596
Sbjct  9524  TCA  9526


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Score = 597 bits (323), Expect = 6e-167
 Identities = 337/343 (98%), Gaps = 4/343 (1%)
 Strand=Plus/Plus

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Query   1      GCCAGCCCCCTGA-TGGGGGCGACACTCCACCATGA-ATCACTCCCTGTGAGGAACCTAC  58
Sbjct  26      GCCAGCCCCC-GATTGGGGGCGACACTCCACCAT-AGATCACTCCCTGTGAGGAACCTAC  83
Query   59      TGCTTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCGACCCCTCAGG  118
Sbjct  84      TGCTTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCGACCCCTCAGG  143
Query   119     AcccccccTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC  178
Sbjct  144     ACCCCCCCTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC  203
Query   179     AGGACGACCGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCC  238
Sbjct  204     AGGACGACCGGTCCTTTCTTGGATCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCC  263
Query   239     CCGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTTGGTACTGCCTGATA  298
Sbjct  264     CCGCGAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTTGGTACTGCCTGATA  323
Query   299     GGGTGTCTTGCAGTGCCTCCGGGAGGTCTCTGTAGACCGTGACC  341
Sbjct  324     GGGTGTCTTGCAGTGCCTCCGGGAGGTCTCTGTAGACCGTGACC  366

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>emb|CS619798.1|  Sequence 7 from Patent EP1801116
 Length=11509

Sort alignments for this subject se
 E value Score Percent identity
 Query start position Subject sta

Score = 1.104e+04 bits (5978), Expect = 0.0
 Identities = 6116/6183 (98%), Gaps = 8/6183 (0%)
 Strand=Plus/Plus

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Query   3418  TGGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCA  3477
Sbjct  3348  TGGCGCCTATTACGGCCTACTCCCAACAGACGCGAGGCCCTACTTGGCTGCATCATCACTA  3407
Query   3478  GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCC-AGATCGTGTCAACTGCT  3536
Sbjct  3408  GCCTACAGGCCGGGACAGGAACCAAGTTCGAGGGGAGGTCCAAAG-TGGTCTCCACCGCA  3466
Query   3537  ACCCAAACTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCC  3596
Sbjct  3467  ACACAATCTTTCTTGGCACTGCGTCAATGGCGTGTGTTGGACTGTCTATCATGGTGCC  3526
Query   3597  GGAACGAGGACCATCG-CATCACCCAAGGGTCTGTATCCAGATGTATACCAATGTGGA  3655
Sbjct  3527  GGCTCAAAGACCTTGCCGGC-CCAAAGGGCCCAATACCCAAATGTACACCAATGTGGA  3585
Query   3656  CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCTGTACCTG  3715
Sbjct  3586  CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCTGTACCTG  3645
Query   3716  CGGCTCCTCGGACCTTTACCTGGTTCACGAGGCACGCGCATGTCAATCCCGTGCGCCGGG  3775
Sbjct  3646  CGGCTCCTCGGACCTTTACCTGGTTCACGAGGCACGCGCATGTCAATCCCGTGCGCCGGG  3705

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Query	3776	AGGTGATAGCAGGGGTAGCCTGCTTTCGCCCGGCCCATTTCTACTTGAAGGCTCCTC	3835
Sbjct	3706	AGGTGATAGCAGGGGTAGCCTGCTTTCGCCCGGCCCATTTCTACTTGAAGGCTCCTC	3765
Query	3836	GGGGGGTCCGCTGTTGTGCCCGCGGACACGCCGTGGGGCTATTACGGGCGCGGTGTG	3895
Sbjct	3766	GGGGGGTCCGCTGTTGTGCCCGCGGACACGCCGTGGGGCTATTACGGGCGCGGTGTG	3825
Query	3896	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3955
Sbjct	3826	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3885
Query	3956	GAGATCCCCGGTGTTCACGGACAACCTCCTCTCCACAGCAGTGCCCCAGAGCTTCCAGGT	4015
Sbjct	3886	GAGATCCCCGGTGTTCACGGACAACCTCCTCTCCACAGCAGTGCCCCAGAGCTTCCAGGT	3945
Query	4016	GGCCCACTTGCATGCTCTCCACCGCAGCGGTAAAGAGCACCAAGGTCCCGGTGCGTACGC	4075
Sbjct	3946	GGCCCACTTGCATGCTCTCCACCGCAGCGGTAAAGAGCACCAAGGTCCCGGTGCGTACGC	4005
Query	4076	AGCCAGGGGTACAAGGTGTTGGTGTCAACCCCTCTGTTGTGCAAGCGTGGGCTTTGG	4135
Sbjct	4006	AGCCAGGGGTACAAGGTGTTGGTGTCAACCCCTCTGTTGTGCAAGCGTGGGCTTTGG	4065
Query	4136	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGACCGGGGTGAGAACAAAT	4195
Sbjct	4066	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGACCGGGGTGAGAACAAAT	4125
Query	4196	TACCACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGGCCGACGGCGGGTG	4255
Sbjct	4126	TACCACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGGCCGACGGCGGGTG	4185
Query	4256	CTCAGGAGGTGCTTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4315
Sbjct	4186	CTCAGGAGGTGCTTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4245
Query	4316	CATCTTGGGCATCGGCACGTGCTTACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGT	4375
Sbjct	4246	CATCTTGGGCATCGGCACGTGCTTACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGT	4305
Query	4376	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGGT	4435
Sbjct	4306	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGGT	4365
Query	4436	TGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4495
Sbjct	4366	TGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4425
Query	4496	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGC	4555
Sbjct	4426	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGC	4485
Query	4556	GAAGCTGGTTCGATTGGGCATCAATGCCGTGGCTACTACCGCGGTCTTGACGTGTCTGT	4615
Sbjct	4486	GAAGCTGGTTCGATTGGGCATCAATGCCGTGGCTACTACCGCGGTCTTGACGTGTCTGT	4545
Query	4616	CATCCCGACACGCGGCGATGTTGTCTGCTGTGTCACCGATGCTCTCATGACTGGCTTTAC	4675
Sbjct	4546	CATCCCGACACGCGGCGATGTTGTCTGCTGTGTCACCGATGCTCTCATGACTGGCTTTAC	4605
Query	4676	CGCGGACTTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACG	4735
Sbjct	4606	CGCGGACTTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACG	4665
Query	4736	CCTTGACCTTACCTTTACCATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGAC	4795
Sbjct	4666	CCTTGACCTTACCTTTACCATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGAC	4725
Query	4796	TCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGG	4855
Sbjct	4726	TCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGG	4785
Query	4856	GGAGCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTG	4915
Sbjct	4786	GGAGCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTG	4845

Query	4916	TGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4975
Sbjct	4846	TGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4905
Query	4976	CCCGGGGCTTCCCGTGTGCCAGGACCATCTGAATTTTGGGAGGGCGCTTTTACGGGCT	5035
Sbjct	4906	CCCGGGGCTTCCCGTGTGCCAGGACCATCTGAATTTTGGGAGGGCGCTTTTACGGGCT	4965
Query	5036	CACATCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTCTCTTA	5095
Sbjct	4966	CACATCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTCTCTTA	5025
Query	5096	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTTCCCCATCGTGGGA	5155
Sbjct	5026	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTTCCCCATCGTGGGA	5085
Query	5156	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCTCCATGGGGCAACACCCCTGCT	5215
Sbjct	5086	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCTCCATGGGGCAACACCCCTGCT	5145
Query	5216	ATACAGACTGGGCGCTGTTTCAAGATGAAGTACCCCTGACGCACCAATCACCATAATACAT	5275
Sbjct	5146	ATACAGACTGGGCGCTGTTTCAAGATGAAGTACCCCTGACGCACCAATCACCATAATACAT	5205
Query	5276	CATGACATGCATGTGCGCCGACCTGGAGGTCGTACAGGACCTGGGTGCTCGTTGGCGG	5335
Sbjct	5206	CATGACATGCATGTGCGCCGACCTGGAGGTCGTACAGGACCTGGGTGCTCGTTGGCGG	5265
Query	5336	CGTCTGTGCTGCTCTGGCCGCGTATTGCCGTGCAACAGGCTGCGTGGTCATAGTGGGCG	5395
Sbjct	5266	CGTCTGTGCTGCTCTGGCCGCGTATTGCCGTGCAACAGGCTGCGTGGTCATAGTGGGCG	5325
Query	5396	GATCGTCTTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTT	5455
Sbjct	5326	GATCGTCTTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTT	5385
Query	5456	CGATGAGATGGAAGATGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGC	5515
Sbjct	5386	CGATGAGATGGAAGATGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGC	5445
Query	5516	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5575
Sbjct	5446	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5505
Query	5576	TATACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACAT	5635
Sbjct	5506	TATACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACAT	5565
Query	5636	GTGGAATTTCATCAGTGGGATACAACTATGGCGGGCTGTCAACGCTGCCTGGTAACCC	5695
Sbjct	5566	GTGGAATTTCATCAGTGGGATACAACTATGGCGGGCTGTCAACGCTGCCTGGTAACCC	5625
Query	5696	GCACATGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCACTGGCCA	5755
Sbjct	5626	GCACATGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCACTGGCCA	5685
Query	5756	AACCCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGC	5815
Sbjct	5686	AACCCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGC	5745
Query	5816	CGCTACTGCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCTGTGGACTGGG	5875
Sbjct	5746	CGCTACTGCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCTGTGGACTGGG	5805
Query	5876	GAAGTCCCTCGTGGACATTTCTGACAGGTATGGCGCGGGCGTGGCGGAGCTCTGTAGC	5935
Sbjct	5806	GAAGTCCCTCGTGGACATTTCTGACAGGTATGGCGCGGGCGTGGCGGAGCTCTGTAGC	5865
Query	5936	ATTCAAGATCATGAGCGGTGAGGTCCCTCCACGAGGACCTGGTCAATCTGCTGCCCGC	5995
Sbjct	5866	ATTCAAGATCATGAGCGGTGAGGTCCCTCCACGAGGACCTGGTCAATCTGCTGCCCGC	5925
Query	5996	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATCTGCGCCGGCA	6055
Sbjct	5926	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATCTGCGCCGGCA	5985

Query	6056	CGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGCTAATAGCCTTCGCCTCCCG	6115
Sbjct	5986	CGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGCTAATAGCCTTCGCCTCCCG	6045
Query	6116	GGGGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGACGCCGCCCGGCTCAC	6175
Sbjct	6046	GGGGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGACGCCGCCCGGCTCAC	6105
Query	6176	TGCCATACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGGCGACTGCATCAGTGATAAG	6235
Sbjct	6106	TGCCATACTCAGCAGCCTCACTGTAAACCAGCTCCTGAGGCGACTGCATCAGTGATAAG	6165
Query	6236	CTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6295
Sbjct	6166	CTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6225
Query	6296	CGAGGTGCTGAGCGCACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGG	6355
Sbjct	6226	CGAGGTGCTGAGCGCACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGG	6285
Query	6356	GATTCCTTGTGTGCTCGCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATAT	6415
Sbjct	6286	GATTCCTTGTGTGCTCGCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATAT	6345
Query	6416	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6475
Sbjct	6346	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6405
Query	6476	GATCGTCGGTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTA	6535
Sbjct	6406	GATCGTCGGTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTA	6465
Query	6536	CACCACGGGGCCCTGTACTCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGT	6595
Sbjct	6466	CACCACGGGGCCCTGTACTCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGT	6525
Query	6596	GTCTGACAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6655
Sbjct	6526	GTCTGACAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6585
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATT	6715
Sbjct	6586	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATT	6645
Query	6716	GGACGGGGTGCGCCCTACACAGGTTTGCGCCCTTTCGAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6646	GGACGGGGTGCGCCCTACACAGGTTTGCGCCCTTTCGAAGCCCTTGCTGCGGGAGGAGGT	6705
Query	6776	ATCATTACAGAGTAGGACTCCACAGTACC CGGTGGGGTCGCAATTACCTTGCAGGCCGA	6835
Sbjct	6706	ATCATTACAGAGTAGGACTCCACAGTACC CGGTGGGGTCGCAATTACCTTGCAGGCCGA	6765
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Sbjct	6766	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6825
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCA	6955
Sbjct	6826	GGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCA	6885
Query	6956	CGTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGA	7015
Sbjct	6886	CGTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGA	6945
Query	7016	GCTCATAGAGGCTAACTCCTGTGGAGGACAGGAGATGGGCGGCAACATCACCAGGGTGA	7075
Sbjct	6946	GCTCATAGAGGCTAACTCCTGTGGAGGACAGGAGATGGGCGGCAACATCACCAGGGTGA	7005
Query	7076	GTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7135
Sbjct	7006	GTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7065
Query	7136	GCGGGAGGTCTCCGTACCTGCAGAAATCTCGGGAAGTCTCGGAGATTGCGCCGGGCCCT	7195
Sbjct	7066	GCGGGAGGTCTCCGTACCTGCAGAAATCTCGGGAAGTCTCGGAGATTGCGCCGGGCCCT	7125

Query	7196	GCCCGTCTGGGCGCGCGGACTACAACCCCGCTAGTAGAGACGTGAAAAAGCCTGA	7255
Sbjct	7126	GCCCGTCTGGGCGCGCGGACTACAACCCCGCTAGTAGAGACGTGAAAAAGCCTGA	7185
Query	7256	CTACGAACACCTGTGGTCCATGGCTGCCGCTACCACCTCCACGGTCCCCTCCTGTGCC	7315
Sbjct	7186	CTACGAACACCTGTGGTCCATGGCTGCCGCTACCACCTCCACGGTCCCCTCCTGTGCC	7245
Query	7316	TCCGCCTCGGAAAAAGCGTACGGTGGTCTCACCAGTAACCCATCTACTGCCTTGGC	7375
Sbjct	7246	TCCGCCTCGGAAAAAGCGTACGGTGGTCTCACCAGTAACCCATCTACTGCCTTGGC	7305
Query	7376	CGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7435
Sbjct	7306	CGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7365
Query	7436	GACAACATCCTCTGAGCGCCGCCCTTCTGGCTGccccccGACTCCGACGTTGAGTCCTA	7495
Sbjct	7366	GACAACATCCTCTGAGCGCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTA	7425
Query	7496	TTCTTCCATGccccccTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCA TG	7555
Sbjct	7426	TTCTTCCATGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCA TG	7485
Query	7556	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCG-TGTG-TGCTCAATGTCTTAT	7613
Sbjct	7486	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATG-CGATC-GCCTGCTCAATGTCTTAT	7543
Query	7614	TCCTGGACAGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCATCAAC	7673
Sbjct	7544	TCCTGGACAGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCATCAAC	7603
Query	7674	GCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTAATTCACCACTTCACGAGT	7733
Sbjct	7604	GCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTAATTCACCACTTCACGAGT	7663
Query	7734	GCTTGCCAAAGGCAGAGAAAGTCACATTGACAGACTGCAAGTCTTGACAGCCATTAC	7793
Sbjct	7664	GCTTGCCAAAGGCAGAGAAAGTCACATTGACAGACTGCAAGTCTTGACAGCCATTAC	7723
Query	7794	CAGGACGTGCTCAAGGAGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCC	7853
Sbjct	7724	CAGGACGTGCTCAAGGAGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCC	7783
Query	7854	GTAGAGGAAGCTTGACGCTGACGCCCCACATTACGCAAAATCAAGTTTGGCTATGGG	7913
Sbjct	7784	GTAGAGGAAGCTTGACGCTGACGCCCCACATTACGCAAAATCAAGTTTGGCTATGGG	7843
Query	7914	GC AAAAGACGTCGGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGGGAAA	7973
Sbjct	7844	GC AAAAGACGTCGGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGGGAAA	7903
Query	7974	GACCTTCTGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGT	8033
Sbjct	7904	GACCTTCTGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGT	7963
Query	8034	TTCTGCGTTTACGCTGAGAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTCCCCGCAC	8093
Sbjct	7964	TTCTGCGTTTACGCTGAGAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTCCCCGCAC	8023
Query	8094	CTGGGCGTGGCGGTGTGCGGAGAAGATGGCCCTGTACGAGCTGGTTAGCAAGCTCCCCCTG	8153
Sbjct	8024	CTGGGCGTGGCGGTGTGCGGAGAAGATGGCCCTGTACGAGCTGGTTAGCAAGCTCCCCCTG	8083
Query	8154	GCCGTGATGGGAAGCTCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTC	8213
Sbjct	8084	GCCGTGATGGGAAGCTCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTC	8143
Query	8214	GTGCAAGCGTGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8144	GTGCAAGCGTGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8203
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333
Sbjct	8204	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8263

Query	8334	CTGGACCCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8264	CTGGACCCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8323
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGAGGTGCCGCGAGCGCGCTA	8453
Sbjct	8324	CCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGAGGTGCCGCGAGCGCGCTA	8383
Query	8454	CTGACAAC TAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCGGGACGCTGTCGA	8513
Sbjct	8384	CTGACAAC TAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCGGGACGCTGTCGA	8443
Query	8514	GCCGAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Sbjct	8444	GCCGAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8503
Query	8574	GAAAGTGC GGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACC	8633
Sbjct	8504	GAAAGTGC GGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACC	8563
Query	8634	AGGTACTCCGccccccccgggggacccccACAACCAGAAATACGACTTGGAGCTTATAACA	8693
Sbjct	8564	AGGTACTCCGCCCCCCCCGGGGACCCCCACAACCAGAAATACGACTTGGAGCTTATAACA	8623
Query	8694	TCATGCTCCTCCAACGTGTCAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTT	8753
Sbjct	8624	TCATGCTCCTCCAACGTGTCAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTT	8683
Query	8754	ACCCGTGACCTTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCA	8813
Sbjct	8684	ACCCGTGACCTTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCA	8743
Query	8814	GTCAAATTCCTGGCTAGGCCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATA	8873
Sbjct	8744	GTCAAATTCCTGGCTAGGCCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATA	8803
Query	8874	CTGATGACCAATTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8933
Sbjct	8804	CTGATGACCAATTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8863
Query	8934	TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAA	8993
Sbjct	8864	TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAA	8923
Query	8994	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAATCAATAGG	9053
Sbjct	8924	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAATCAATAGG	8983
Query	9054	GTGGCCGATGCTCAGAAAACTTGGGGTCCCGCCCTTGCAGAGCTTGAGACACCGGGCC	9113
Sbjct	8984	GTGGCCGATGCTCAGAAAACTTGGGGTCCCGCCCTTGCAGAGCTTGAGACACCGGGCC	9043
Query	9114	CGGAGCGTCGCGCTAGGCTTCTGTCCAGGAGGACGAGGCTGCCATATGTGGCAAGTAC	9173
Sbjct	9044	CGGAGCGTCGCGCTAGGCTTCTGTCCAGGAGGACGAGGCTGCCATATGTGGCAAGTAC	9103
Query	9174	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGG	9233
Sbjct	9104	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGG	9163
Query	9234	CTGGACTTGTCCGGTGGTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTG	9293
Sbjct	9164	CTGGACTTGTCCGGTGGTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTG	9223
Query	9294	TCTCATGCCGGCCCGCTGGTTCTGGTTTTCGCTACTTCTGCTCGCTGCAGGGGTAGGC	9353
Sbjct	9224	TCTCATGCCGGCCCGCTGGTTCTGGTTTTCGCTACTTCTGCTCGCTGCAGGGGTAGGC	9283
Query	9354	ATCTACCTCCTCCCCAACCGATGAAGTTGGGGTAAACACTCCGGCCTCTTAAGCCATT	9413
Sbjct	9284	ATCTACCTCCTCCCCAACCGATGACGGTCCGGGTAAACACTCCGGCCTCTTAAGCCATT	9343
Query	9414	CTGTtttttttttttttttttttttttttttttttttttttttttttttttttttttttttt	9473
Sbjct	9344	CTGTtttttttttttttttttttttttttttttttttttttttttttttttttttttttttt	9403

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Query 9474 ttttttcctttcttttttcccttcttAAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAG 9533
Sbjct 9404 TTTTTCCTTTCTTTTTCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAG 9463
Query 9534 CTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGTCTGATACTGGCCTCTCTGCAGA 9593
Sbjct 9464 CTGTGAAAGGTCCGTGAGCCGCTTGAATGCAGAGAGTGTCTGATACTGGCCTCTCTGCAGA 9523
Query 9594 TCA 9596
Sbjct 9524 TCA 9526


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Score = 597 bits (323), Expect = 6e-167
 Identities = 337/343 (98%), Gaps = 4/343 (1%)
 Strand=Plus/Plus

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Query 1 GCCAGCCCCCTGA-TGGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAACATC 58
Sbjct 26 GCCAGCCCCC-GATGGGGGCGACACTCCACCAT-AGATCACTCCCCTGTGAGGAACATC 83
Query 59 TGCTTTACGACAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGCTGCAGCCTCCAGG 118
Sbjct 84 TGCTTTACGACAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGCTGCAGCCTCCAGG 143
Query 119 AccccccccTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC 178
Sbjct 144 ACCCCCCCTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC 203
Query 179 AGGACGACCGGGTCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTITGGGCGTGCCC 238
Sbjct 204 AGGACGACCGGGTCTTTCTTGGATCAACCCGCTCAATGCCTGGAGATTITGGGCGTGCCC 263
Query 239 CCGCAAGACTTGTAGCCAGTAGTGTGGGTGCGAAAGGCCCTTGTGGTACTGCCTGATA 298
Sbjct 264 CCGCGAGACTTGTAGCCAGTAGTGTGGGTGCGAAAGGCCCTTGTGGTACTGCCTGATA 323
Query 299 GGGTGTCTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGACC 341
Sbjct 324 GGGTGTCTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGACC 366

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>emb|GM975250.1|  Sequence 5 from Patent WO2008148671
 Length=11507

Score = 1.101e+04 bits (5963), Expect = 0.0
 Identities = 6111/6183 (98%), Gaps = 8/6183 (0%)
 Strand=Plus/Plus

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Query 3418 TGGCGCCCATCAGCGCGTACGCCAGACGAGAGGCCCTCTAGGGTGTATATACCA 3477
Sbjct 3346 TGGCGCCTATTACGGGCTACTCCCAACAGACGCGAGGCCCTATTGGCTGCATCATCTACTA 3405
Query 3478 GCCTGACTTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCC-AGATCGTGTCACTGCT 3536
Sbjct 3406 GCTCTACAGGCCGGGACAGGAACAGGTGAGGGGGAGGTCCAG-TGGTCTCCACCGCA 3464
Query 3537 ACCCAAACTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGC 3596
Sbjct 3465 ACACATCTTTCTTGGCGACCTGCGTCAATGGCGTGTGTTGGAATGTCTATCATGGTGCC 3524
Query 3597 GGAACGAGGACCATCG-CATACCCAAGGGTCTGTATCCAGATGTATACCAATGTGGA 3655
Sbjct 3525 GGCTCAAAGACCTTGGCGGC-CCAAAGGGCCCAATCACCAAAATGTACACCAATGTGGA 3583
Query 3656 CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCTGTACCTG 3715
Sbjct 3584 CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCTGTACCTG 3643
Query 3716 CGGCTCCTCGGACCTTTACCTGGTACAGAGGACGCGGATGTCAATCCCGTGGCCGGGG 3775
Sbjct 3644 CGGCTCCTCGGACCTTTACCTGGTACAGAGGACGCGGATGTCAATCCCGTGGCCGGGG 3703
Query 3776 AGGTGATAGCAGGGGTAGCTGCTTTGCCCCGGGCCATTTCCTACTTGAAAGGCTCTCT 3835

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Sbjct	3704	AGGTGATAGCAGGGGTAGCCTGCTTTGCCCGCCGCCATTTCCCTACTTGAAAGGCTCCTC	3763
Query	3836	GGGGGGTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGGCTATTACGGGCCCGGTTGTG	3895
Sbjct	3764	GGGGGGTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGGCTATTACGGGCCCGGTTGTG	3823
Query	3896	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3955
Sbjct	3824	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3883
Query	3956	GAGATCCCCGGTGTTCACGGACAACCTCCTCTCCACAGCAGTGCCCCAGAGCTTCCAGGT	4015
Sbjct	3884	GAGATCCCCGGTGTTCACGGACAACCTCCTCTCCACAGCAGTGCCCCAGAGCTTCCAGGT	3943
Query	4016	GGCCCACTGTCATGCTCCACCGGCAGCGGTAAAGACCAAGGTCCCGGCTGCGTACGC	4075
Sbjct	3944	GGCCCACTGTCATGCTCCACCGGCAGCGGTAAAGACCAAGGTCCCGGCTGCGTACGC	4003
Query	4076	AGCCAGGGGTACAAGGTGTTGGTGTCAACCCCTCTGTTGCTGCAACGCTGGGGTTTGG	4135
Sbjct	4004	AGCCAGGGGTACAAGGTGTTGGTGTCAACCCCTCTGTTGCTGCAACGCTGGGGTTTGG	4063
Query	4136	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGTGAGAACAAAT	4195
Sbjct	4064	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGTGAGAACAAAT	4123
Query	4196	TACCACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTG	4255
Sbjct	4124	TACCACTGGCAGCCCCATCAGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTG	4183
Query	4256	CTCAGGAGGTGCTTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4315
Sbjct	4184	CTCAGGAGGTGCTTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4243
Query	4316	CATCTTGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTTGTGTG	4375
Sbjct	4244	CATCTTGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTTGTGTG	4303
Query	4376	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGGT	4435
Sbjct	4304	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTTAACATCGAGGAGGT	4363
Query	4436	TGCTCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4495
Sbjct	4364	TGCTCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4423
Query	4496	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGC	4555
Sbjct	4424	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGC	4483
Query	4556	GAAGTGTGTCGATTGGGCATCAATGCCGTGGCTACTACCCGGGTCTTGACGTGTCTGT	4615
Sbjct	4484	GAAGTGTGTCGATTGGGCATCAATGCCGTGGCTACTACCCGGGTCTTGACGTGTCTGT	4543
Query	4616	CATCCCGACACAGCGGCGATGTTGTCTGCTGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4675
Sbjct	4544	CATCCCGACACAGCGGCGATGTTGTCTGCTGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4603
Query	4676	CGCGGACTTCGACTCTGTGATAGACTGCAACACGTTGTGTCACTCAGACAGTCGATTTACG	4735
Sbjct	4604	CGCGGACTTCGACTCTGTGATAGACTGCAACACGTTGTGTCACTCAGACAGTCGATTTACG	4663
Query	4736	CCTTGACCTTACCTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGAC	4795
Sbjct	4664	CCTTGACCTTACCTTTACCAATTGAGACAACACGCTCCCCAGGATGCTGTCTCCAGGAC	4723
Query	4796	TCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGG	4855
Sbjct	4724	TCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTGTGGCACCGGG	4783
Query	4856	GGAGCGCCCCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTG	4915
Sbjct	4784	GGAGCGCCCCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTG	4843
Query	4916	TGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4975

Sbjct	4844	TGCTTGGTATGAGCTACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4903
Query	4976	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCT	5035
Sbjct	4904	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCT	4963
Query	5036	CACATCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCCTTA	5095
Sbjct	4964	CACATCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGAGAACTTTCCCTTA	5023
Query	5096	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGA	5155
Sbjct	5024	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGA	5083
Query	5156	CCAGATGTGGAAGTGTGTTGATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCT	5215
Sbjct	5084	CCAGATGTGGAAGTGTGTTGATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCT	5143
Query	5216	ATACAGACTGGGCGCTGTTTCTGAGATGAAGTCACCCGTACGCACCCAAATCACCATAATACAT	5275
Sbjct	5144	ATACAGACTGGGCGCTGTTTCTGAGATGAAGTCACCCGTACGCACCCAAATCACCATAATACAT	5203
Query	5276	CATGACATGCATGTGCGCCGACCTGGAGGTGCTGCACGAGACCTGGGTGCTCGTTGGCGG	5335
Sbjct	5204	CATGACATGCATGTGCGCTGATCTAGAGGTGCTGCACGAGACCTGGGTGCTCGTTGGCGG	5263
Query	5336	CGTCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCG	5395
Sbjct	5264	CGTCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCG	5323
Query	5396	GATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTT	5455
Sbjct	5324	GATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACAGGAGTT	5383
Query	5456	CGATGAGATGGAAGAGTGTCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5515
Sbjct	5384	CGATGAGATGGAAGAGTGTCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5443
Query	5516	TGAGCAGTTCAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5575
Sbjct	5444	TGAGCAGTTCAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5503
Query	5576	TATCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACAT	5635
Sbjct	5504	TATCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACAT	5563
Query	5636	GTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCC	5695
Sbjct	5564	GTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCC	5623
Query	5696	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACAGCCCACTAACCACTGGCCA	5755
Sbjct	5624	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACAGCCCACTAACCACTGGCCA	5683
Query	5756	AACCCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGC	5815
Sbjct	5684	AACCCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGC	5743
Query	5816	CGCTACTGCTTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGACTGGG	5875
Sbjct	5744	CGCTACTGCTTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGACTGGG	5803
Query	5876	GAAAGTCCCTGTGGACATCTTTCAGGGTATGGCGGGGGTGGCGGGAGCTCTTGATAGC	5935
Sbjct	5804	GAAAGTCCCTGTGGACATCTTTCAGGGTATGGCGGGGGTGGCGGGAGCTCTTGATAGC	5863
Query	5936	ATTCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC	5995
Sbjct	5864	ATTCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC	5923
Query	5996	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	6055
Sbjct	5924	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	5983
Query	6056	CGTTGGCCCCGGCGAGGGGGCAGTGCAATGGATGAACCGCTTAATAGCCTTCGCCCTCCG	6115

Sbjct	5984	CGTTGGCCCGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCCTCCCG	6043
Query	6116	GGGGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGACGCCGCCCGGCTCAC	6175
Sbjct	6044	GGGGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGACGCCGCCCGGCTCAC	6103
Query	6176	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6235
Sbjct	6104	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6163
Query	6236	CTCGGAGTGTACCACTCCAATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6295
Sbjct	6164	CTCGGAGTGTACCACTCCAATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6223
Query	6296	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGG	6355
Sbjct	6224	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGG	6283
Query	6356	GATTCCCTTTGTGTCTTGCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6415
Sbjct	6284	GATTCCCTTTGTGTCTTGCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6343
Query	6416	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6475
Sbjct	6344	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6403
Query	6476	GATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTA	6535
Sbjct	6404	GATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTA	6463
Query	6536	ACCACGGGCCCTGTACTCCCTTCTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGT	6595
Sbjct	6464	ACCACGGGCCCTGTACTCCCTTCTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGT	6523
Query	6596	GTCTCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6655
Sbjct	6524	GTCTCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6583
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATT	6715
Sbjct	6584	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATT	6643
Query	6716	GGACGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6644	GGACGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6703
Query	6776	ATCATTACAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGAATTACCTTGCGAGCCCGA	6835
Sbjct	6704	ATCATTACAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGAATTACCTTGCGAGCCCGA	6763
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Sbjct	6764	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6823
Query	6896	GGCCGGGAGAGGTTGGCGAGAGGGTCAACCCCTTCTATGGCCAGCTCCTCGGCTAGCCA	6955
Sbjct	6824	GGCCGGGAGAGGTTGGCGAGAGGGTCAACCCCTTCTATGGCCAGCTCCTCGGCTATCCA	6883
Query	6956	GCTGTCGGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGA	7015
Sbjct	6884	GCTGTCGGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGA	6943
Query	7016	GCTCATAGAGGCTAACTCCTGTGGAGGAGGAGATGGGGCGCAACATCACCAGGGTTGA	7075
Sbjct	6944	GCTCATAGAGGCTAACTCCTGTGGAGGAGGAGATGGGGCGCAACATCACCAGGGTTGA	7003
Query	7076	GTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCCGCTTGTGGCAGAGGAGGATGA	7135
Sbjct	7004	GTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCCGCTTGTGGCAGAGGAGGATGA	7063
Query	7136	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCGCCCGGCCCT	7195
Sbjct	7064	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCGCCCGGCCCT	7123
Query	7196	GCCCGTCTTGGGCGCGCGGACTACAACCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7255

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Sbjct	7184	CTACGAACCACTGTGGTCCATGGCTGCCGCTACCACCTCCACGGTCCCCTCCTGTGGC	7243
Query	7316	TCCGCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCATATCTACTGCCCTTGGC	7375
Sbjct	7244	TCCGCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCATATCTACTGCCCTTGGC	7303
Query	7376	CGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7435
Sbjct	7304	CGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7363
Query	7436	GACAACATCCTCTGAGCCCGCCCTTCTGGCTGcccccccGACTCCGACGTTGAGTCCTA	7495
Sbjct	7364	GACAACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTA	7423
Query	7496	TTCTTCCATGcccccccTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCA TG	7555
Sbjct	7424	TTCTTCCATGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCA TG	7483
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Sbjct	7484	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATG-CGATC-GCTGTCTAATGTCTTAT	7541
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Sbjct	7722	CAGGACGTGCTCAAGGAGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCC	7781
Query	7854	GTAGAGGAAGCTTGACGCTGACGCCCCACATTACGCCAAATCCAAGTTTGCTATGGG	7913
Sbjct	7782	GTAGAGGAAGCTTGACGCTGACGCCCCACATTACGCCAAATCCAAGTTTGCTATGGG	7841
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Sbjct	7842	GCAAAGACGTCGGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAA	7901
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Sbjct	8022	CTGGGCGTGCCTGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTG	8081
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Sbjct	8082	GCCGTGATGGGAAGCTCTACGGATTCCAATACTACACGAGCAGCGGGTTGAATTCTCT	8141
Query	8214	GTGCAAGCGTGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8142	GTGCAAGCGTGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8201
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333
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Query	8334	CTGAGCCCCCAAGCCCGCTGGCCATCAAGTCCCTACTGAGAGGCTTTATGTTGGGGGC	8393

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Sbjct	8322	CCTCTTACCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGGAGCGCGTA	8381
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Query	8574	GAAAGTGCGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGAGGGCTATGACC	8633
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Query	8994	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG	9053
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Query	9234	CTGGACTTGTCCGGTGTGTTACGGCTGGCTACAGCGGGGGAGACATTATACACAGCGTG	9293
Sbjct	9162	CTGGACTTGTCCGGTGTGTTACGGCTGGCTACAGCGGGGGAGACATTATACACAGCGTG	9221
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Query  9594  TCA  9596
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Sbjct  9522  TCA  9524
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